



# Multiplication Facts to 144 (A) Answers

Note: All facts appear at least once.

|                                |                                |                                |                              |                               |                                |                                |                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 10<br>$\times 10$<br><hr/> 100 | 6<br>$\times 12$<br><hr/> 72   | 9<br>$\times 5$<br><hr/> 45    | 10<br>$\times 8$<br><hr/> 80 | 9<br>$\times 1$<br><hr/> 9    | 1<br>$\times 8$<br><hr/> 8     | 12<br>$\times 2$<br><hr/> 24   | 1<br>$\times 6$<br><hr/> 6     | 7<br>$\times 8$<br><hr/> 56    | 10<br>$\times 6$<br><hr/> 60   |
| 7<br>$\times 12$<br><hr/> 84   | 12<br>$\times 9$<br><hr/> 108  | 12<br>$\times 11$<br><hr/> 132 | 2<br>$\times 7$<br><hr/> 14  | 6<br>$\times 10$<br><hr/> 60  | 7<br>$\times 3$<br><hr/> 21    | 12<br>$\times 6$<br><hr/> 72   | 12<br>$\times 10$<br><hr/> 120 | 6<br>$\times 11$<br><hr/> 66   | 11<br>$\times 4$<br><hr/> 44   |
| 4<br>$\times 5$<br><hr/> 20    | 7<br>$\times 10$<br><hr/> 70   | 11<br>$\times 12$<br><hr/> 132 | 8<br>$\times 12$<br><hr/> 96 | 10<br>$\times 2$<br><hr/> 20  | 1<br>$\times 10$<br><hr/> 10   | 10<br>$\times 12$<br><hr/> 120 | 3<br>$\times 3$<br><hr/> 9     | 8<br>$\times 6$<br><hr/> 48    | 2<br>$\times 3$<br><hr/> 6     |
| 2<br>$\times 2$<br><hr/> 4     | 6<br>$\times 7$<br><hr/> 42    | 9<br>$\times 7$<br><hr/> 63    | 1<br>$\times 4$<br><hr/> 4   | 9<br>$\times 12$<br><hr/> 108 | 7<br>$\times 11$<br><hr/> 77   | 3<br>$\times 5$<br><hr/> 15    | 2<br>$\times 8$<br><hr/> 16    | 3<br>$\times 10$<br><hr/> 30   | 8<br>$\times 11$<br><hr/> 88   |
| 6<br>$\times 9$<br><hr/> 54    | 2<br>$\times 6$<br><hr/> 12    | 9<br>$\times 4$<br><hr/> 36    | 11<br>$\times 9$<br><hr/> 99 | 6<br>$\times 6$<br><hr/> 36   | 9<br>$\times 3$<br><hr/> 27    | 3<br>$\times 12$<br><hr/> 36   | 1<br>$\times 1$<br><hr/> 1     | 12<br>$\times 12$<br><hr/> 144 | 1<br>$\times 11$<br><hr/> 11   |
| 9<br>$\times 6$<br><hr/> 54    | 10<br>$\times 11$<br><hr/> 110 | 4<br>$\times 3$<br><hr/> 12    | 9<br>$\times 10$<br><hr/> 90 | 5<br>$\times 11$<br><hr/> 55  | 5<br>$\times 5$<br><hr/> 25    | 9<br>$\times 9$<br><hr/> 81    | 12<br>$\times 1$<br><hr/> 12   | 7<br>$\times 6$<br><hr/> 42    | 9<br>$\times 11$<br><hr/> 99   |
| 4<br>$\times 4$<br><hr/> 16    | 10<br>$\times 5$<br><hr/> 50   | 3<br>$\times 11$<br><hr/> 33   | 3<br>$\times 1$<br><hr/> 3   | 4<br>$\times 2$<br><hr/> 8    | 10<br>$\times 7$<br><hr/> 70   | 10<br>$\times 9$<br><hr/> 90   | 9<br>$\times 2$<br><hr/> 18    | 12<br>$\times 8$<br><hr/> 96   | 2<br>$\times 1$<br><hr/> 2     |
| 8<br>$\times 7$<br><hr/> 56    | 8<br>$\times 4$<br><hr/> 32    | 8<br>$\times 8$<br><hr/> 64    | 5<br>$\times 8$<br><hr/> 40  | 6<br>$\times 8$<br><hr/> 48   | 12<br>$\times 5$<br><hr/> 60   | 4<br>$\times 6$<br><hr/> 24    | 4<br>$\times 10$<br><hr/> 40   | 5<br>$\times 2$<br><hr/> 10    | 11<br>$\times 10$<br><hr/> 110 |
| 4<br>$\times 7$<br><hr/> 28    | 7<br>$\times 7$<br><hr/> 49    | 2<br>$\times 11$<br><hr/> 22   | 7<br>$\times 9$<br><hr/> 63  | 6<br>$\times 3$<br><hr/> 18   | 8<br>$\times 10$<br><hr/> 80   | 11<br>$\times 6$<br><hr/> 66   | 1<br>$\times 7$<br><hr/> 7     | 4<br>$\times 5$<br><hr/> 20    | 9<br>$\times 8$<br><hr/> 72    |
| 12<br>$\times 7$<br><hr/> 84   | 8<br>$\times 9$<br><hr/> 72    | 4<br>$\times 12$<br><hr/> 48   | 11<br>$\times 7$<br><hr/> 77 | 5<br>$\times 7$<br><hr/> 35   | 11<br>$\times 11$<br><hr/> 121 | 5<br>$\times 1$<br><hr/> 5     | 5<br>$\times 6$<br><hr/> 30    | 11<br>$\times 8$<br><hr/> 88   | 3<br>$\times 8$<br><hr/> 24    |



# Multiplication Facts to 144 (B) Answers

Note: All facts appear at least once.

|             |             |             |             |            |             |             |             |             |             |
|-------------|-------------|-------------|-------------|------------|-------------|-------------|-------------|-------------|-------------|
| 12          | 12          | 7           | 4           | 12         | 12          | 6           | 5           | 2           | 10          |
| $\times 11$ | $\times 12$ | $\times 11$ | $\times 5$  | $\times 7$ | $\times 4$  | $\times 7$  | $\times 4$  | $\times 10$ | $\times 12$ |
| <u>132</u>  | <u>144</u>  | <u>77</u>   | <u>20</u>   | <u>84</u>  | <u>48</u>   | <u>42</u>   | <u>20</u>   | <u>20</u>   | <u>120</u>  |
| 11          | 10          | 8           | 10          | 7          | 10          | 2           | 4           | 11          | 5           |
| $\times 10$ | $\times 11$ | $\times 12$ | $\times 3$  | $\times 5$ | $\times 7$  | $\times 12$ | $\times 11$ | $\times 9$  | $\times 5$  |
| <u>110</u>  | <u>110</u>  | <u>96</u>   | <u>30</u>   | <u>35</u>  | <u>70</u>   | <u>24</u>   | <u>44</u>   | <u>99</u>   | <u>25</u>   |
| 4           | 10          | 9           | 2           | 7          | 6           | 8           | 5           | 5           | 12          |
| $\times 2$  | $\times 9$  | $\times 6$  | $\times 3$  | $\times 9$ | $\times 12$ | $\times 11$ | $\times 2$  | $\times 12$ | $\times 1$  |
| <u>8</u>    | <u>90</u>   | <u>54</u>   | <u>6</u>    | <u>63</u>  | <u>72</u>   | <u>88</u>   | <u>10</u>   | <u>60</u>   | <u>12</u>   |
| 6           | 3           | 3           | 6           | 5          | 1           | 12          | 10          | 3           | 10          |
| $\times 10$ | $\times 11$ | $\times 4$  | $\times 2$  | $\times 9$ | $\times 4$  | $\times 3$  | $\times 8$  | $\times 7$  | $\times 4$  |
| <u>60</u>   | <u>33</u>   | <u>12</u>   | <u>12</u>   | <u>45</u>  | <u>4</u>    | <u>36</u>   | <u>80</u>   | <u>21</u>   | <u>40</u>   |
| 2           | 8           | 11          | 11          | 7          | 8           | 9           | 12          | 8           | 1           |
| $\times 2$  | $\times 9$  | $\times 8$  | $\times 1$  | $\times 7$ | $\times 1$  | $\times 1$  | $\times 8$  | $\times 2$  | $\times 10$ |
| <u>4</u>    | <u>72</u>   | <u>88</u>   | <u>11</u>   | <u>49</u>  | <u>8</u>    | <u>9</u>    | <u>96</u>   | <u>16</u>   | <u>10</u>   |
| 9           | 4           | 12          | 2           | 5          | 8           | 3           | 4           | 9           | 6           |
| $\times 11$ | $\times 9$  | $\times 9$  | $\times 1$  | $\times 6$ | $\times 10$ | $\times 5$  | $\times 6$  | $\times 3$  | $\times 8$  |
| <u>99</u>   | <u>36</u>   | <u>108</u>  | <u>2</u>    | <u>30</u>  | <u>80</u>   | <u>15</u>   | <u>24</u>   | <u>27</u>   | <u>48</u>   |
| 8           | 7           | 7           | 10          | 11         | 2           | 7           | 7           | 11          | 6           |
| $\times 7$  | $\times 2$  | $\times 10$ | $\times 10$ | $\times 7$ | $\times 9$  | $\times 12$ | $\times 6$  | $\times 5$  | $\times 11$ |
| <u>56</u>   | <u>14</u>   | <u>70</u>   | <u>100</u>  | <u>77</u>  | <u>18</u>   | <u>84</u>   | <u>42</u>   | <u>55</u>   | <u>66</u>   |
| 8           | 8           | 2           | 9           | 4          | 5           | 3           | 12          | 6           | 11          |
| $\times 4$  | $\times 8$  | $\times 11$ | $\times 10$ | $\times 4$ | $\times 8$  | $\times 3$  | $\times 6$  | $\times 3$  | $\times 11$ |
| <u>32</u>   | <u>64</u>   | <u>22</u>   | <u>90</u>   | <u>16</u>  | <u>40</u>   | <u>9</u>    | <u>72</u>   | <u>18</u>   | <u>121</u>  |
| 9           | 9           | 5           | 8           | 9          | 12          | 7           | 9           | 3           | 6           |
| $\times 7$  | $\times 8$  | $\times 10$ | $\times 6$  | $\times 9$ | $\times 10$ | $\times 8$  | $\times 12$ | $\times 1$  | $\times 6$  |
| <u>63</u>   | <u>72</u>   | <u>50</u>   | <u>48</u>   | <u>81</u>  | <u>120</u>  | <u>56</u>   | <u>108</u>  | <u>3</u>    | <u>36</u>   |
| 11          | 1           | 8           | 11          | 7          | 1           | 10          | 6           | 1           | 1           |
| $\times 12$ | $\times 6$  | $\times 3$  | $\times 6$  | $\times 4$ | $\times 7$  | $\times 6$  | $\times 9$  | $\times 1$  | $\times 5$  |
| <u>132</u>  | <u>6</u>    | <u>24</u>   | <u>66</u>   | <u>28</u>  | <u>7</u>    | <u>60</u>   | <u>54</u>   | <u>1</u>    | <u>5</u>    |



# Multiplication Facts to 144 (C) Answers

Note: All facts appear at least once.

|  |  |   |  |  |  |   |  |  |  |
|--|--|---|--|--|--|---|--|--|--|
| $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$   | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$ | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$   | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$    | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$  | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$    | $\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$    | $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$   | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$    |
| $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$  | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$ | $\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$    | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$ | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$   | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$    | $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$    | $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$   | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$   |
| $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$   | $\begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array}$ | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$  | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$     | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$ | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$   | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$    | $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$   | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$    |
| $\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$     | $\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$  | $\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$    | $\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$    | $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$   | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$    | $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$   | $\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$   | $\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$     | $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ |
| $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$  | $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$   | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$   | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$ | $\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$    | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$   | $\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$     | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$    | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$    |
| $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$    | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$  | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$  | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$ | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$    | $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$    | $\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$   | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$   |
| $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$    | $\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$ | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$  | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$  | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$   | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$ | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$     | $\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$    |
| $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$    | $\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$ | $\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$   | $\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$   | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$  | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$     | $\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$  | $\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$   | $\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$     | $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$    |
| $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$    | $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$ | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$  | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$  | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$    | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$   | $\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$   | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$   |
| $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$    | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$  | $\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$  | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$   | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$   | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$   | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$    | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$   | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$    |



# Multiplication Facts to 144 (D) Answers

Note: All facts appear at least once.

|             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 8           | 2           | 10          | 5           | 11          | 1           | 6           | 3           | 8           | 7           |
| $\times 12$ | $\times 9$  | $\times 9$  | $\times 4$  | $\times 11$ | $\times 5$  | $\times 3$  | $\times 7$  | $\times 9$  | $\times 7$  |
| <u>96</u>   | <u>18</u>   | <u>90</u>   | <u>20</u>   | <u>121</u>  | <u>5</u>    | <u>18</u>   | <u>21</u>   | <u>72</u>   | <u>49</u>   |
| 9           | 9           | 1           | 11          | 11          | 8           | 9           | 5           | 6           | 8           |
| $\times 10$ | $\times 9$  | $\times 3$  | $\times 10$ | $\times 6$  | $\times 2$  | $\times 6$  | $\times 11$ | $\times 10$ | $\times 3$  |
| <u>90</u>   | <u>81</u>   | <u>3</u>    | <u>110</u>  | <u>66</u>   | <u>16</u>   | <u>54</u>   | <u>55</u>   | <u>60</u>   | <u>24</u>   |
| 4           | 12          | 3           | 7           | 5           | 6           | 7           | 12          | 9           | 10          |
| $\times 10$ | $\times 9$  | $\times 9$  | $\times 8$  | $\times 5$  | $\times 6$  | $\times 4$  | $\times 8$  | $\times 11$ | $\times 5$  |
| <u>40</u>   | <u>108</u>  | <u>27</u>   | <u>56</u>   | <u>25</u>   | <u>36</u>   | <u>28</u>   | <u>96</u>   | <u>99</u>   | <u>50</u>   |
| 7           | 10          | 10          | 3           | 3           | 2           | 1           | 6           | 6           | 7           |
| $\times 11$ | $\times 11$ | $\times 12$ | $\times 10$ | $\times 3$  | $\times 10$ | $\times 12$ | $\times 5$  | $\times 9$  | $\times 12$ |
| <u>77</u>   | <u>110</u>  | <u>120</u>  | <u>30</u>   | <u>9</u>    | <u>20</u>   | <u>12</u>   | <u>30</u>   | <u>54</u>   | <u>84</u>   |
| 9           | 8           | 11          | 11          | 12          | 2           | 8           | 11          | 3           | 7           |
| $\times 4$  | $\times 8$  | $\times 3$  | $\times 7$  | $\times 5$  | $\times 12$ | $\times 6$  | $\times 12$ | $\times 4$  | $\times 10$ |
| <u>36</u>   | <u>64</u>   | <u>33</u>   | <u>77</u>   | <u>60</u>   | <u>24</u>   | <u>48</u>   | <u>132</u>  | <u>12</u>   | <u>70</u>   |
| 6           | 1           | 10          | 11          | 7           | 4           | 1           | 7           | 11          | 9           |
| $\times 12$ | $\times 1$  | $\times 8$  | $\times 2$  | $\times 9$  | $\times 5$  | $\times 2$  | $\times 1$  | $\times 8$  | $\times 12$ |
| <u>72</u>   | <u>1</u>    | <u>80</u>   | <u>22</u>   | <u>63</u>   | <u>20</u>   | <u>2</u>    | <u>7</u>    | <u>88</u>   | <u>108</u>  |
| 8           | 4           | 6           | 10          | 8           | 6           | 10          | 3           | 11          | 4           |
| $\times 10$ | $\times 1$  | $\times 11$ | $\times 6$  | $\times 7$  | $\times 8$  | $\times 10$ | $\times 12$ | $\times 9$  | $\times 11$ |
| <u>80</u>   | <u>4</u>    | <u>66</u>   | <u>60</u>   | <u>56</u>   | <u>48</u>   | <u>100</u>  | <u>36</u>   | <u>99</u>   | <u>44</u>   |
| 9           | 12          | 12          | 4           | 4           | 12          | 8           | 10          | 6           | 11          |
| $\times 5$  | $\times 7$  | $\times 10$ | $\times 6$  | $\times 12$ | $\times 12$ | $\times 11$ | $\times 1$  | $\times 7$  | $\times 1$  |
| <u>45</u>   | <u>84</u>   | <u>120</u>  | <u>24</u>   | <u>48</u>   | <u>144</u>  | <u>88</u>   | <u>10</u>   | <u>42</u>   | <u>11</u>   |
| 12          | 2           | 9           | 5           | 2           | 1           | 1           | 4           | 8           | 7           |
| $\times 6$  | $\times 5$  | $\times 8$  | $\times 8$  | $\times 2$  | $\times 9$  | $\times 6$  | $\times 4$  | $\times 1$  | $\times 6$  |
| <u>72</u>   | <u>10</u>   | <u>72</u>   | <u>40</u>   | <u>4</u>    | <u>9</u>    | <u>6</u>    | <u>16</u>   | <u>8</u>    | <u>42</u>   |
| 3           | 10          | 8           | 2           | 2           | 9           | 4           | 7           | 12          | 3           |
| $\times 5$  | $\times 7$  | $\times 4$  | $\times 7$  | $\times 6$  | $\times 7$  | $\times 2$  | $\times 5$  | $\times 11$ | $\times 2$  |
| <u>15</u>   | <u>70</u>   | <u>32</u>   | <u>14</u>   | <u>12</u>   | <u>63</u>   | <u>8</u>    | <u>35</u>   | <u>132</u>  | <u>6</u>    |



# Multiplication Facts to 144 (E) Answers

Note: All facts appear at least once.

|             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5           | 3           | 4           | 2           | 11          | 11          | 4           | 6           | 10          | 12          |
| $\times 5$  | $\times 12$ | $\times 11$ | $\times 10$ | $\times 6$  | $\times 2$  | $\times 3$  | $\times 7$  | $\times 7$  | $\times 6$  |
| <u>25</u>   | <u>36</u>   | <u>44</u>   | <u>20</u>   | <u>66</u>   | <u>22</u>   | <u>12</u>   | <u>42</u>   | <u>70</u>   | <u>72</u>   |
| 7           | 4           | 7           | 12          | 8           | 10          | 10          | 2           | 12          | 12          |
| $\times 11$ | $\times 1$  | $\times 9$  | $\times 10$ | $\times 11$ | $\times 9$  | $\times 3$  | $\times 3$  | $\times 8$  | $\times 5$  |
| <u>77</u>   | <u>4</u>    | <u>63</u>   | <u>120</u>  | <u>88</u>   | <u>90</u>   | <u>30</u>   | <u>6</u>    | <u>96</u>   | <u>60</u>   |
| 3           | 2           | 1           | 11          | 6           | 8           | 3           | 11          | 6           | 4           |
| $\times 5$  | $\times 8$  | $\times 11$ | $\times 8$  | $\times 12$ | $\times 6$  | $\times 9$  | $\times 5$  | $\times 10$ | $\times 12$ |
| <u>15</u>   | <u>16</u>   | <u>11</u>   | <u>88</u>   | <u>72</u>   | <u>48</u>   | <u>27</u>   | <u>55</u>   | <u>60</u>   | <u>48</u>   |
| 4           | 11          | 2           | 10          | 7           | 4           | 5           | 8           | 10          | 11          |
| $\times 6$  | $\times 7$  | $\times 9$  | $\times 12$ | $\times 5$  | $\times 5$  | $\times 9$  | $\times 12$ | $\times 4$  | $\times 10$ |
| <u>24</u>   | <u>77</u>   | <u>18</u>   | <u>120</u>  | <u>35</u>   | <u>20</u>   | <u>45</u>   | <u>96</u>   | <u>40</u>   | <u>110</u>  |
| 7           | 2           | 2           | 10          | 10          | 7           | 11          | 9           | 3           | 6           |
| $\times 6$  | $\times 1$  | $\times 6$  | $\times 10$ | $\times 11$ | $\times 8$  | $\times 12$ | $\times 10$ | $\times 8$  | $\times 1$  |
| <u>42</u>   | <u>2</u>    | <u>12</u>   | <u>100</u>  | <u>110</u>  | <u>56</u>   | <u>132</u>  | <u>90</u>   | <u>24</u>   | <u>6</u>    |
| 9           | 1           | 7           | 2           | 7           | 11          | 10          | 12          | 1           | 9           |
| $\times 8$  | $\times 12$ | $\times 10$ | $\times 7$  | $\times 7$  | $\times 3$  | $\times 8$  | $\times 9$  | $\times 10$ | $\times 9$  |
| <u>72</u>   | <u>12</u>   | <u>70</u>   | <u>14</u>   | <u>49</u>   | <u>33</u>   | <u>80</u>   | <u>108</u>  | <u>10</u>   | <u>81</u>   |
| 8           | 12          | 8           | 4           | 10          | 6           | 9           | 11          | 11          | 6           |
| $\times 9$  | $\times 11$ | $\times 7$  | $\times 4$  | $\times 6$  | $\times 9$  | $\times 7$  | $\times 9$  | $\times 11$ | $\times 11$ |
| <u>72</u>   | <u>132</u>  | <u>56</u>   | <u>16</u>   | <u>60</u>   | <u>54</u>   | <u>63</u>   | <u>99</u>   | <u>121</u>  | <u>66</u>   |
| 6           | 4           | 5           | 7           | 2           | 8           | 7           | 1           | 3           | 1           |
| $\times 3$  | $\times 2$  | $\times 10$ | $\times 12$ | $\times 2$  | $\times 10$ | $\times 3$  | $\times 9$  | $\times 3$  | $\times 1$  |
| <u>18</u>   | <u>8</u>    | <u>50</u>   | <u>84</u>   | <u>4</u>    | <u>80</u>   | <u>21</u>   | <u>9</u>    | <u>9</u>    | <u>1</u>    |
| 5           | 6           | 4           | 9           | 4           | 9           | 6           | 2           | 8           | 8           |
| $\times 4$  | $\times 6$  | $\times 9$  | $\times 6$  | $\times 7$  | $\times 12$ | $\times 8$  | $\times 5$  | $\times 5$  | $\times 1$  |
| <u>20</u>   | <u>36</u>   | <u>36</u>   | <u>54</u>   | <u>28</u>   | <u>108</u>  | <u>48</u>   | <u>10</u>   | <u>40</u>   | <u>8</u>    |
| 3           | 5           | 12          | 2           | 9           | 5           | 12          | 8           | 8           | 1           |
| $\times 1$  | $\times 1$  | $\times 7$  | $\times 12$ | $\times 11$ | $\times 6$  | $\times 12$ | $\times 4$  | $\times 8$  | $\times 7$  |
| <u>3</u>    | <u>5</u>    | <u>84</u>   | <u>24</u>   | <u>99</u>   | <u>30</u>   | <u>144</u>  | <u>32</u>   | <u>64</u>   | <u>7</u>    |



# Multiplication Facts to 144 (F) Answers

Note: All facts appear at least once.

|             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 11          | 12          | 9           | 4           | 2           | 5           | 1           | 6           | 6           | 10          |
| $\times 9$  | $\times 6$  | $\times 8$  | $\times 12$ | $\times 11$ | $\times 6$  | $\times 9$  | $\times 10$ | $\times 9$  | $\times 7$  |
| <hr/> 99    | <hr/> 72    | <hr/> 72    | <hr/> 48    | <hr/> 22    | <hr/> 30    | <hr/> 9     | <hr/> 60    | <hr/> 54    | <hr/> 70    |
| 7           | 11          | 6           | 3           | 10          | 10          | 3           | 2           | 12          | 3           |
| $\times 7$  | $\times 5$  | $\times 4$  | $\times 7$  | $\times 5$  | $\times 11$ | $\times 12$ | $\times 2$  | $\times 2$  | $\times 1$  |
| <hr/> 49    | <hr/> 55    | <hr/> 24    | <hr/> 21    | <hr/> 50    | <hr/> 110   | <hr/> 36    | <hr/> 4     | <hr/> 24    | <hr/> 3     |
| 7           | 4           | 12          | 7           | 1           | 9           | 10          | 3           | 8           | 10          |
| $\times 9$  | $\times 11$ | $\times 8$  | $\times 6$  | $\times 4$  | $\times 4$  | $\times 10$ | $\times 2$  | $\times 9$  | $\times 6$  |
| <hr/> 63    | <hr/> 44    | <hr/> 96    | <hr/> 42    | <hr/> 4     | <hr/> 36    | <hr/> 100   | <hr/> 6     | <hr/> 72    | <hr/> 60    |
| 10          | 3           | 8           | 5           | 7           | 7           | 8           | 1           | 10          | 3           |
| $\times 2$  | $\times 8$  | $\times 1$  | $\times 7$  | $\times 10$ | $\times 4$  | $\times 8$  | $\times 11$ | $\times 8$  | $\times 3$  |
| <hr/> 20    | <hr/> 24    | <hr/> 8     | <hr/> 35    | <hr/> 70    | <hr/> 28    | <hr/> 64    | <hr/> 11    | <hr/> 80    | <hr/> 9     |
| 6           | 1           | 7           | 5           | 9           | 12          | 9           | 8           | 1           | 1           |
| $\times 12$ | $\times 5$  | $\times 12$ | $\times 2$  | $\times 11$ | $\times 7$  | $\times 2$  | $\times 10$ | $\times 10$ | $\times 12$ |
| <hr/> 72    | <hr/> 5     | <hr/> 84    | <hr/> 10    | <hr/> 99    | <hr/> 84    | <hr/> 18    | <hr/> 80    | <hr/> 10    | <hr/> 12    |
| 6           | 9           | 11          | 10          | 10          | 11          | 11          | 5           | 6           | 12          |
| $\times 2$  | $\times 6$  | $\times 6$  | $\times 9$  | $\times 3$  | $\times 12$ | $\times 11$ | $\times 12$ | $\times 3$  | $\times 10$ |
| <hr/> 12    | <hr/> 54    | <hr/> 66    | <hr/> 90    | <hr/> 30    | <hr/> 132   | <hr/> 121   | <hr/> 60    | <hr/> 18    | <hr/> 120   |
| 5           | 5           | 11          | 5           | 8           | 7           | 4           | 4           | 9           | 8           |
| $\times 3$  | $\times 4$  | $\times 8$  | $\times 9$  | $\times 5$  | $\times 1$  | $\times 10$ | $\times 8$  | $\times 10$ | $\times 7$  |
| <hr/> 15    | <hr/> 20    | <hr/> 88    | <hr/> 45    | <hr/> 40    | <hr/> 7     | <hr/> 40    | <hr/> 32    | <hr/> 90    | <hr/> 56    |
| 6           | 1           | 3           | 6           | 7           | 7           | 6           | 9           | 4           | 12          |
| $\times 11$ | $\times 2$  | $\times 9$  | $\times 8$  | $\times 8$  | $\times 2$  | $\times 7$  | $\times 7$  | $\times 5$  | $\times 9$  |
| <hr/> 66    | <hr/> 2     | <hr/> 27    | <hr/> 48    | <hr/> 56    | <hr/> 14    | <hr/> 42    | <hr/> 63    | <hr/> 20    | <hr/> 108   |
| 8           | 8           | 7           | 11          | 6           | 2           | 12          | 11          | 3           | 9           |
| $\times 12$ | $\times 6$  | $\times 11$ | $\times 10$ | $\times 1$  | $\times 4$  | $\times 11$ | $\times 3$  | $\times 4$  | $\times 9$  |
| <hr/> 96    | <hr/> 48    | <hr/> 77    | <hr/> 110   | <hr/> 6     | <hr/> 8     | <hr/> 132   | <hr/> 33    | <hr/> 12    | <hr/> 81    |
| 12          | 8           | 10          | 1           | 4           | 11          | 9           | 5           | 8           | 6           |
| $\times 12$ | $\times 2$  | $\times 12$ | $\times 1$  | $\times 4$  | $\times 7$  | $\times 12$ | $\times 5$  | $\times 11$ | $\times 6$  |
| <hr/> 144   | <hr/> 16    | <hr/> 120   | <hr/> 1     | <hr/> 16    | <hr/> 77    | <hr/> 108   | <hr/> 25    | <hr/> 88    | <hr/> 36    |



# Multiplication Facts to 144 (G) Answers

Note: All facts appear at least once.

|  |  |  |   |  |  |  |  |  |   |
|--|--|--|---|--|--|--|--|--|---|
| $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$   | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array}$   | $\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$    | $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$    | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$   | $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$ | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$ | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$  |
| $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$   | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$  | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$     | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$ | $\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$     | $\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$ | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$  | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$  |
| $\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$   | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$    | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$    | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$   | $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$    | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$   | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$ | $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$  | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$   |
| $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$   | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$    | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$    | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$  | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$    | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$  | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$   | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$  | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$ |
| $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$     | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$  | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$    | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$ | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$   | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$ | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$  | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$   |
| $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$   | $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$    | $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$    | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$  | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ | $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$   | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$    | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$  | $\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$ | $\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$    |
| $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$    | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$    | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$ | $\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$    | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$  | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$     | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$ | $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$  | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$   |
| $\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$     | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$   | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$    | $\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$   | $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$    | $\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$ | $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$    | $\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$ | $\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$   | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$  |
| $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$    | $\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$     | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$   | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$   | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$  | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$   | $\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$ | $\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$   | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$   |
| $\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$   | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$    | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$   | $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$   | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$ | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$    | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$  | $\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$   | $\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$   |



# Multiplication Facts to 144 (H) Answers

Note: All facts appear at least once.

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 5   | 12  | 1   | 12  | 7   | 8   | 4   | 3   | 9   | 9   |
| $\times 2$  | $\times 3$  | $\times 4$  | $\times 9$  | $\times 4$  | $\times 9$  | $\times 12$   | $\times 9$  | $\times 2$  | $\times 11$   |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 10  | 36  | 4   | 108   | 28  | 72  | 48  | 27  | 18  | 99  |
| 9   | 11  | 2   | 10  | 4   | 8   | 9   | 7   | 10  | 11  |
| $\times 6$  | $\times 3$  | $\times 3$  | $\times 12$   | $\times 4$  | $\times 4$  | $\times 10$   | $\times 8$  | $\times 7$  | $\times 1$  |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 54  | 33  | 6   | 120   | 16  | 32  | 90  | 56  | 70  | 11  |
| 9   | 4   | 12  | 2   | 10  | 12  | 10  | 7   | 12  | 8   |
| $\times 9$  | $\times 5$  | $\times 12$   | $\times 6$  | $\times 10$   | $\times 8$  | $\times 9$  | $\times 7$  | $\times 11$   | $\times 12$   |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 81  | 20  | 144   | 12  | 100   | 96  | 90  | 49  | 132   | 96  |
| 11  | 1   | 12  | 12  | 7   | 5   | 3   | 8   | 7   | 2   |
| $\times 11$   | $\times 2$  | $\times 10$   | $\times 7$  | $\times 5$  | $\times 9$  | $\times 4$  | $\times 10$   | $\times 10$   | $\times 7$  |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 121   | 2   | 120   | 84  | 35  | 45  | 12  | 80  | 70  | 14  |
| 2   | 6   | 6   | 6   | 11  | 1   | 8   | 8   | 1   | 8   |
| $\times 4$  | $\times 11$   | $\times 12$   | $\times 6$  | $\times 12$   | $\times 3$  | $\times 2$  | $\times 6$  | $\times 9$  | $\times 8$  |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 8   | 66  | 72  | 36  | 132   | 3   | 16  | 48  | 9   | 64  |
| 12  | 11  | 10  | 11  | 6   | 3   | 12  | 7   | 1   | 10  |
| $\times 2$  | $\times 7$  | $\times 6$  | $\times 10$   | $\times 5$  | $\times 3$  | $\times 6$  | $\times 11$   | $\times 5$  | $\times 11$   |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 24  | 77  | 60  | 110   | 30  | 9   | 72  | 77  | 5   | 110   |
| 3   | 9   | 11  | 7   | 7   | 5   | 11  | 6   | 11  | 6   |
| $\times 5$  | $\times 4$  | $\times 9$  | $\times 12$   | $\times 6$  | $\times 5$  | $\times 8$  | $\times 9$  | $\times 2$  | $\times 4$  |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 15  | 36  | 99  | 84  | 42  | 25  | 88  | 54  | 22  | 24  |
| 2   | 8   | 7   | 1   | 9   | 8   | 1   | 8   | 8   | 9   |
| $\times 10$   | $\times 5$  | $\times 1$  | $\times 6$  | $\times 7$  | $\times 3$  | $\times 1$  | $\times 11$   | $\times 7$  | $\times 12$   |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 20  | 40  | 7   | 6   | 63  | 24  | 1   | 88  | 56  | 108   |
| 1   | 9   | 6   | 6   | 4   | 11  | 1   | 2   | 7   | 10  |
| $\times 10$   | $\times 8$  | $\times 8$  | $\times 10$   | $\times 5$  | $\times 6$  | $\times 8$  | $\times 2$  | $\times 9$  | $\times 4$  |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 10  | 72  | 48  | 60  | 20  | 66  | 8   | 4   | 63  | 40  |
| 6   | 10  | 10  | 5   | 11  | 4   | 3   | 3   | 1   | 3   |
| $\times 7$  | $\times 8$  | $\times 5$  | $\times 12$   | $\times 5$  | $\times 11$   | $\times 6$  | $\times 10$   | $\times 12$   | $\times 7$  |
| <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> | <hr style="width: 100%; border: 0.5px solid black;"/> |
| 42  | 80  | 50  | 60  | 55  | 44  | 18  | 30  | 12  | 21  |



# Multiplication Facts to 144 (I) Answers

Note: All facts appear at least once.

|   |  |   |  |  |  |  |  |  |  |
|---|--|---|--|--|--|--|--|--|--|
| $\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$  | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$  | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$    | $\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$    | $\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$    | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$   | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$    | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$   | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$  | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$    |
| $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$ | $\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$   | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$ | $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$    | $\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$     | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$    | $\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$     | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$    | $\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$   | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$   |
| $\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$  | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$  | $\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$  | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$    | $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$    | $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$    | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$    | $\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$   | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$  | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$    |
| $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$   | $\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$  | $\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$  | $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$     | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$   | $\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$     | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$    | $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$ | $\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$   |
| $\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$  | $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$   | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$   | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$   | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$   | $\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$    | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$   | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$  | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ |
| $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$  | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$ | $\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$    | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$   | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$ | $\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$    |
| $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$  | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$   | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$   | $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$   | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$   | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$    | $\begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array}$   | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$  | $\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$     |
| $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$   | $\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$  | $\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$  | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$    | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$     | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$    | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$    | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$    | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$ | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$   |
| $\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$    | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$ | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$  | $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$    | $\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$   | $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$   | $\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$    | $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$   | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$ | $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$    |
| $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$  | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$   | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$    | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$   | $\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$   | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$  | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$   |



# Multiplication Facts to 144 (J) Answers

Note: All facts appear at least once.

|             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1           | 7           | 12          | 9           | 11          | 5           | 3           | 5           | 2           | 6           |
| $\times 6$  | $\times 10$ | $\times 12$ | $\times 10$ | $\times 8$  | $\times 12$ | $\times 2$  | $\times 7$  | $\times 1$  | $\times 6$  |
| <hr/> 6     | <hr/> 70    | <hr/> 144   | <hr/> 90    | <hr/> 88    | <hr/> 60    | <hr/> 6     | <hr/> 35    | <hr/> 2     | <hr/> 36    |
| 3           | 10          | 11          | 4           | 8           | 6           | 7           | 10          | 6           | 11          |
| $\times 3$  | $\times 2$  | $\times 2$  | $\times 1$  | $\times 8$  | $\times 7$  | $\times 8$  | $\times 8$  | $\times 10$ | $\times 11$ |
| <hr/> 9     | <hr/> 20    | <hr/> 22    | <hr/> 4     | <hr/> 64    | <hr/> 42    | <hr/> 56    | <hr/> 80    | <hr/> 60    | <hr/> 121   |
| 2           | 4           | 5           | 12          | 10          | 10          | 12          | 4           | 7           | 11          |
| $\times 6$  | $\times 4$  | $\times 1$  | $\times 11$ | $\times 9$  | $\times 11$ | $\times 2$  | $\times 5$  | $\times 12$ | $\times 7$  |
| <hr/> 12    | <hr/> 16    | <hr/> 5     | <hr/> 132   | <hr/> 90    | <hr/> 110   | <hr/> 24    | <hr/> 20    | <hr/> 84    | <hr/> 77    |
| 7           | 11          | 5           | 12          | 9           | 8           | 12          | 7           | 9           | 8           |
| $\times 9$  | $\times 12$ | $\times 4$  | $\times 9$  | $\times 2$  | $\times 10$ | $\times 7$  | $\times 11$ | $\times 6$  | $\times 7$  |
| <hr/> 63    | <hr/> 132   | <hr/> 20    | <hr/> 108   | <hr/> 18    | <hr/> 80    | <hr/> 84    | <hr/> 77    | <hr/> 54    | <hr/> 56    |
| 6           | 11          | 9           | 10          | 5           | 1           | 11          | 12          | 11          | 8           |
| $\times 12$ | $\times 9$  | $\times 9$  | $\times 6$  | $\times 10$ | $\times 10$ | $\times 10$ | $\times 10$ | $\times 5$  | $\times 6$  |
| <hr/> 72    | <hr/> 99    | <hr/> 81    | <hr/> 60    | <hr/> 50    | <hr/> 10    | <hr/> 110   | <hr/> 120   | <hr/> 55    | <hr/> 48    |
| 7           | 9           | 1           | 12          | 12          | 11          | 3           | 3           | 10          | 8           |
| $\times 4$  | $\times 5$  | $\times 11$ | $\times 8$  | $\times 4$  | $\times 4$  | $\times 12$ | $\times 9$  | $\times 12$ | $\times 12$ |
| <hr/> 28    | <hr/> 45    | <hr/> 11    | <hr/> 96    | <hr/> 48    | <hr/> 44    | <hr/> 36    | <hr/> 27    | <hr/> 120   | <hr/> 96    |
| 4           | 1           | 8           | 1           | 12          | 6           | 3           | 1           | 8           | 7           |
| $\times 8$  | $\times 7$  | $\times 3$  | $\times 3$  | $\times 6$  | $\times 4$  | $\times 4$  | $\times 12$ | $\times 11$ | $\times 7$  |
| <hr/> 32    | <hr/> 7     | <hr/> 24    | <hr/> 3     | <hr/> 72    | <hr/> 24    | <hr/> 12    | <hr/> 12    | <hr/> 88    | <hr/> 49    |
| 5           | 2           | 9           | 9           | 3           | 9           | 10          | 7           | 8           | 8           |
| $\times 6$  | $\times 2$  | $\times 1$  | $\times 8$  | $\times 6$  | $\times 4$  | $\times 4$  | $\times 6$  | $\times 9$  | $\times 2$  |
| <hr/> 30    | <hr/> 4     | <hr/> 9     | <hr/> 72    | <hr/> 18    | <hr/> 36    | <hr/> 40    | <hr/> 42    | <hr/> 72    | <hr/> 16    |
| 8           | 3           | 5           | 9           | 1           | 11          | 10          | 10          | 6           | 6           |
| $\times 5$  | $\times 10$ | $\times 5$  | $\times 12$ | $\times 1$  | $\times 3$  | $\times 7$  | $\times 10$ | $\times 11$ | $\times 8$  |
| <hr/> 40    | <hr/> 30    | <hr/> 25    | <hr/> 108   | <hr/> 1     | <hr/> 33    | <hr/> 70    | <hr/> 100   | <hr/> 66    | <hr/> 48    |
| 9           | 7           | 3           | 11          | 6           | 1           | 5           | 9           | 2           | 5           |
| $\times 7$  | $\times 2$  | $\times 7$  | $\times 6$  | $\times 9$  | $\times 8$  | $\times 3$  | $\times 11$ | $\times 4$  | $\times 2$  |
| <hr/> 63    | <hr/> 14    | <hr/> 21    | <hr/> 66    | <hr/> 54    | <hr/> 8     | <hr/> 15    | <hr/> 99    | <hr/> 8     | <hr/> 10    |



# Multiplication Facts to 144 (K) Answers

Note: All facts appear at least once.

|  |  |  |  |  |  |  |   |  |  |
|--|--|--|--|--|--|--|---|--|--|
| $\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$    | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$    | $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$  | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$    | $\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$ | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$    | $\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$ | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$   | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$  | $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$     |
| $\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$     | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$   | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$ | $\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$    | $\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$ | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$    | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$  | $\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$    | $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$  | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$   |
| $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$   | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$ | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$   | $\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$   | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$    | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$  | $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$   | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$ | $\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$    |
| $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$   | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$    | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$ | $\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$   | $\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$ | $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$   | $\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$ | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ |
| $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$    | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$  | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$  | $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$    | $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$  | $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$  | $\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$   | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$    |
| $\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$    | $\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$    | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$   | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$   | $\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$     | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$   | $\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$    | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$   | $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$   |
| $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$    | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$  | $\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$     | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$ | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$    | $\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$  | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$  | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$  | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$   |
| $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$    | $\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$     | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$  | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$    | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$  | $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$   | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$ | $\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$   |
| $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$   | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$   | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$ | $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$   | $\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$ | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$   | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$ | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$ | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$  |
| $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$    | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$  | $\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$    | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$  | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$   | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$ | $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$  | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$ | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ |



# Multiplication Facts to 144 (L) Answers

Note: All facts appear at least once.

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$ | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$    | $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$    | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$    | $\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$ | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$   | $\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$   | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$    | $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$   | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$   |
| $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$  | $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$     | $\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$   | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$     | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$  | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$    | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$  | $\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$   | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$   |
| $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$  | $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$   | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$    | $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$    | $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$ | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$    | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$   | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$    | $\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$    | $\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$     |
| $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$  | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$   | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$    | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$  | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$    | $\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$   | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$   | $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$   | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ |
| $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$ | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$   | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$    | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$   | $\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$     | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$    | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$    | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$    | $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$    |
| $\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$   | $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$    | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$    | $\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$  | $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$    | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$   | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$    | $\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$   | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$   |
| $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$   | $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$   | $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$    | $\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$   | $\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$   | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$    | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$    | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$    | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$   | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$   |
| $\begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array}$ | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$   | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$   | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$ | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$   | $\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$   | $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$   | $\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$   |
| $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$   | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$   | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$    | $\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$   | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$   | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$    | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$    |
| $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$  | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$    | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$     | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$ | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ | $\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$     | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$  | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$   | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$    |



# Multiplication Facts to 144 (M) Answers

Note: All facts appear at least once.

|  |  |  |   |  |  |  |  |  |  |
|--|--|--|---|--|--|--|--|--|--|
| $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$   | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$    | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$  | $\begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array}$ | $\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$   | $\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$     | $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$  | $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$    | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$   |
| $\begin{array}{r} 1 \\ \times 10 \\ \hline 10 \end{array}$   | $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$    | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$     | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$ | $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$ | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$     | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$    | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$  | $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$   |
| $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$    | $\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$     | $\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$     | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$  | $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$   | $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$     | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$    | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$  | $\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$   | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$    |
| $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$     | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$   | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$    | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$  | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$ | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$    | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$ | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$    | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$    |
| $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array}$   | $\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$   | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$   | $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$  | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$   | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$   | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$  | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$   | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ |
| $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$    | $\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$   | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$   | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$ | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$ | $\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$   | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$   | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$ | $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$   | $\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$     |
| $\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$    | $\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$     | $\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$    | $\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$   | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$ | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$   | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$ | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$   | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$     |
| $\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$    | $\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$    | $\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$   | $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$   | $\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$   | $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$    | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$ | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$    | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$    |
| $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$    | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$   | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$   | $\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$  | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$    | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$  | $\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$     | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$    |
| $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$   | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$    | $\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$   | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$  | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$   | $\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$ | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$    | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$    |



# Multiplication Facts to 144 (N) Answers

Note: All facts appear at least once.

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| $\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$ | $\begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array}$   | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$ | $\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$   | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$ | $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$    | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$    | $\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$     | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$    | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$   |
| $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$ | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$   | $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$ | $\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$     | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$   | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$   | $\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$    | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$  |
| $\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$  | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$   | $\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array}$   | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$   | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$  | $\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$    | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$   | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$  |
| $\begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$ | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$  | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$ | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$     | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$    | $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$    | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$ |
| $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$  | $\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$     | $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$  | $\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$   | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$   | $\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$   | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$   |
| $\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$   | $\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$     | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$  | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$   | $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$  | $\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$    | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$    | $\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$    | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$   |
| $\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$   | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$    | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$  | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$ | $\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$     | $\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$   | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$    | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$    | $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$  |
| $\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$ | $\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$   | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$  | $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$    | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$ | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$   | $\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$   | $\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$     | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$    | $\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$  |
| $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$  | $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$    | $\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$  | $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$   | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$  | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$   | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$    | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$    | $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$ |
| $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$ | $\begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array}$   | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$ | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$  | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$  | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$    | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$  | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$    | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$    | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$ |



# Multiplication Facts to 144 (O) Answers

Note: All facts appear at least once.

|             |             |             |             |             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5           | 6           | 11          | 5           | 10          | 12          | 9           | 11          | 7           | 3           |
| $\times 6$  | $\times 7$  | $\times 4$  | $\times 12$ | $\times 7$  | $\times 9$  | $\times 7$  | $\times 8$  | $\times 12$ | $\times 5$  |
| <u>30</u>   | <u>42</u>   | <u>44</u>   | <u>60</u>   | <u>70</u>   | <u>108</u>  | <u>63</u>   | <u>88</u>   | <u>84</u>   | <u>15</u>   |
| 10          | 8           | 8           | 10          | 3           | 7           | 3           | 7           | 1           | 8           |
| $\times 4$  | $\times 4$  | $\times 8$  | $\times 8$  | $\times 6$  | $\times 6$  | $\times 1$  | $\times 11$ | $\times 8$  | $\times 7$  |
| <u>40</u>   | <u>32</u>   | <u>64</u>   | <u>80</u>   | <u>18</u>   | <u>42</u>   | <u>3</u>    | <u>77</u>   | <u>8</u>    | <u>56</u>   |
| 7           | 5           | 11          | 1           | 8           | 5           | 9           | 9           | 10          | 12          |
| $\times 5$  | $\times 2$  | $\times 7$  | $\times 9$  | $\times 10$ | $\times 4$  | $\times 8$  | $\times 10$ | $\times 10$ | $\times 6$  |
| <u>35</u>   | <u>10</u>   | <u>77</u>   | <u>9</u>    | <u>80</u>   | <u>20</u>   | <u>72</u>   | <u>90</u>   | <u>100</u>  | <u>72</u>   |
| 7           | 1           | 1           | 3           | 8           | 2           | 1           | 2           | 9           | 4           |
| $\times 4$  | $\times 7$  | $\times 12$ | $\times 7$  | $\times 3$  | $\times 7$  | $\times 10$ | $\times 10$ | $\times 5$  | $\times 1$  |
| <u>28</u>   | <u>7</u>    | <u>12</u>   | <u>21</u>   | <u>24</u>   | <u>14</u>   | <u>10</u>   | <u>20</u>   | <u>45</u>   | <u>4</u>    |
| 11          | 9           | 12          | 3           | 4           | 8           | 3           | 6           | 4           | 1           |
| $\times 10$ | $\times 12$ | $\times 7$  | $\times 3$  | $\times 12$ | $\times 12$ | $\times 2$  | $\times 9$  | $\times 2$  | $\times 5$  |
| <u>110</u>  | <u>108</u>  | <u>84</u>   | <u>9</u>    | <u>48</u>   | <u>96</u>   | <u>6</u>    | <u>54</u>   | <u>8</u>    | <u>5</u>    |
| 12          | 4           | 10          | 1           | 7           | 12          | 12          | 9           | 6           | 12          |
| $\times 12$ | $\times 9$  | $\times 3$  | $\times 1$  | $\times 9$  | $\times 10$ | $\times 11$ | $\times 3$  | $\times 8$  | $\times 3$  |
| <u>144</u>  | <u>36</u>   | <u>30</u>   | <u>1</u>    | <u>63</u>   | <u>120</u>  | <u>132</u>  | <u>27</u>   | <u>48</u>   | <u>36</u>   |
| 5           | 10          | 7           | 6           | 6           | 6           | 11          | 11          | 10          | 2           |
| $\times 5$  | $\times 12$ | $\times 8$  | $\times 10$ | $\times 6$  | $\times 12$ | $\times 6$  | $\times 11$ | $\times 11$ | $\times 12$ |
| <u>25</u>   | <u>120</u>  | <u>56</u>   | <u>60</u>   | <u>36</u>   | <u>72</u>   | <u>66</u>   | <u>121</u>  | <u>110</u>  | <u>24</u>   |
| 6           | 10          | 10          | 9           | 11          | 6           | 8           | 12          | 9           | 5           |
| $\times 4$  | $\times 6$  | $\times 9$  | $\times 6$  | $\times 12$ | $\times 11$ | $\times 11$ | $\times 8$  | $\times 9$  | $\times 10$ |
| <u>24</u>   | <u>60</u>   | <u>90</u>   | <u>54</u>   | <u>132</u>  | <u>66</u>   | <u>88</u>   | <u>96</u>   | <u>81</u>   | <u>50</u>   |
| 9           | 2           | 11          | 2           | 2           | 5           | 1           | 5           | 3           | 4           |
| $\times 11$ | $\times 1$  | $\times 9$  | $\times 2$  | $\times 11$ | $\times 8$  | $\times 11$ | $\times 11$ | $\times 11$ | $\times 5$  |
| <u>99</u>   | <u>2</u>    | <u>99</u>   | <u>4</u>    | <u>22</u>   | <u>40</u>   | <u>11</u>   | <u>55</u>   | <u>33</u>   | <u>20</u>   |
| 8           | 3           | 2           | 7           | 2           | 1           | 7           | 4           | 8           | 2           |
| $\times 9$  | $\times 4$  | $\times 8$  | $\times 10$ | $\times 9$  | $\times 6$  | $\times 7$  | $\times 4$  | $\times 6$  | $\times 6$  |
| <u>72</u>   | <u>12</u>   | <u>16</u>   | <u>70</u>   | <u>18</u>   | <u>6</u>    | <u>49</u>   | <u>16</u>   | <u>48</u>   | <u>12</u>   |



# Multiplication Facts to 144 (P) Answers

Note: All facts appear at least once.

|                              |                                |                                |                                |                              |                              |                              |                              |                                |                                |
|------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------------------|--------------------------------|
| 6<br>$\times 11$<br><hr/> 66 | 7<br>$\times 12$<br><hr/> 84   | 6<br>$\times 12$<br><hr/> 72   | 2<br>$\times 8$<br><hr/> 16    | 9<br>$\times 6$<br><hr/> 54  | 9<br>$\times 3$<br><hr/> 27  | 2<br>$\times 3$<br><hr/> 6   | 7<br>$\times 9$<br><hr/> 63  | 10<br>$\times 11$<br><hr/> 110 | 1<br>$\times 3$<br><hr/> 3     |
| 4<br>$\times 5$<br><hr/> 20  | 9<br>$\times 9$<br><hr/> 81    | 11<br>$\times 12$<br><hr/> 132 | 9<br>$\times 8$<br><hr/> 72    | 2<br>$\times 12$<br><hr/> 24 | 2<br>$\times 1$<br><hr/> 2   | 6<br>$\times 8$<br><hr/> 48  | 2<br>$\times 11$<br><hr/> 22 | 2<br>$\times 9$<br><hr/> 18    | 12<br>$\times 4$<br><hr/> 48   |
| 12<br>$\times 3$<br><hr/> 36 | 1<br>$\times 4$<br><hr/> 4     | 12<br>$\times 8$<br><hr/> 96   | 5<br>$\times 11$<br><hr/> 55   | 4<br>$\times 8$<br><hr/> 32  | 11<br>$\times 7$<br><hr/> 77 | 7<br>$\times 4$<br><hr/> 28  | 6<br>$\times 10$<br><hr/> 60 | 6<br>$\times 7$<br><hr/> 42    | 12<br>$\times 12$<br><hr/> 144 |
| 5<br>$\times 1$<br><hr/> 5   | 7<br>$\times 1$<br><hr/> 7     | 7<br>$\times 10$<br><hr/> 70   | 10<br>$\times 12$<br><hr/> 120 | 3<br>$\times 8$<br><hr/> 24  | 1<br>$\times 6$<br><hr/> 6   | 11<br>$\times 6$<br><hr/> 66 | 8<br>$\times 9$<br><hr/> 72  | 11<br>$\times 11$<br><hr/> 121 | 5<br>$\times 7$<br><hr/> 35    |
| 4<br>$\times 2$<br><hr/> 8   | 3<br>$\times 3$<br><hr/> 9     | 11<br>$\times 10$<br><hr/> 110 | 4<br>$\times 11$<br><hr/> 44   | 6<br>$\times 9$<br><hr/> 54  | 2<br>$\times 6$<br><hr/> 12  | 8<br>$\times 7$<br><hr/> 56  | 10<br>$\times 6$<br><hr/> 60 | 4<br>$\times 6$<br><hr/> 24    | 3<br>$\times 5$<br><hr/> 15    |
| 5<br>$\times 9$<br><hr/> 45  | 5<br>$\times 10$<br><hr/> 50   | 8<br>$\times 5$<br><hr/> 40    | 10<br>$\times 4$<br><hr/> 40   | 12<br>$\times 1$<br><hr/> 12 | 2<br>$\times 5$<br><hr/> 10  | 12<br>$\times 5$<br><hr/> 60 | 5<br>$\times 5$<br><hr/> 25  | 11<br>$\times 8$<br><hr/> 88   | 9<br>$\times 11$<br><hr/> 99   |
| 7<br>$\times 11$<br><hr/> 77 | 12<br>$\times 10$<br><hr/> 120 | 8<br>$\times 8$<br><hr/> 64    | 8<br>$\times 6$<br><hr/> 48    | 7<br>$\times 7$<br><hr/> 49  | 8<br>$\times 11$<br><hr/> 88 | 11<br>$\times 9$<br><hr/> 99 | 8<br>$\times 10$<br><hr/> 80 | 4<br>$\times 5$<br><hr/> 20    | 12<br>$\times 6$<br><hr/> 72   |
| 9<br>$\times 1$<br><hr/> 9   | 6<br>$\times 6$<br><hr/> 36    | 10<br>$\times 10$<br><hr/> 100 | 8<br>$\times 12$<br><hr/> 96   | 3<br>$\times 10$<br><hr/> 30 | 7<br>$\times 8$<br><hr/> 56  | 10<br>$\times 9$<br><hr/> 90 | 9<br>$\times 10$<br><hr/> 90 | 10<br>$\times 7$<br><hr/> 70   | 3<br>$\times 6$<br><hr/> 18    |
| 11<br>$\times 3$<br><hr/> 33 | 5<br>$\times 6$<br><hr/> 30    | 9<br>$\times 12$<br><hr/> 108  | 3<br>$\times 7$<br><hr/> 21    | 2<br>$\times 7$<br><hr/> 14  | 1<br>$\times 10$<br><hr/> 10 | 2<br>$\times 2$<br><hr/> 4   | 4<br>$\times 9$<br><hr/> 36  | 12<br>$\times 9$<br><hr/> 108  | 8<br>$\times 1$<br><hr/> 8     |
| 1<br>$\times 1$<br><hr/> 1   | 12<br>$\times 11$<br><hr/> 132 | 9<br>$\times 7$<br><hr/> 63    | 3<br>$\times 4$<br><hr/> 12    | 11<br>$\times 1$<br><hr/> 11 | 10<br>$\times 8$<br><hr/> 80 | 4<br>$\times 4$<br><hr/> 16  | 7<br>$\times 6$<br><hr/> 42  | 12<br>$\times 7$<br><hr/> 84   | 10<br>$\times 2$<br><hr/> 20   |



# Multiplication Facts to 144 (Q) Answers

Note: All facts appear at least once.

|                         |                          |                        |                        |                          |                          |                          |                        |                        |                          |
|-------------------------|--------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------------------|--------------------------|
| 8<br><u>× 11</u><br>88  | 11<br><u>× 8</u><br>88   | 8<br><u>× 3</u><br>24  | 8<br><u>× 6</u><br>48  | 6<br><u>× 8</u><br>48    | 5<br><u>× 8</u><br>40    | 2<br><u>× 2</u><br>4     | 2<br><u>× 10</u><br>20 | 4<br><u>× 2</u><br>8   | 7<br><u>× 6</u><br>42    |
| 6<br><u>× 6</u><br>36   | 9<br><u>× 9</u><br>81    | 2<br><u>× 3</u><br>6   | 1<br><u>× 9</u><br>9   | 12<br><u>× 7</u><br>84   | 12<br><u>× 10</u><br>120 | 11<br><u>× 6</u><br>66   | 2<br><u>× 6</u><br>12  | 12<br><u>× 3</u><br>36 | 6<br><u>× 10</u><br>60   |
| 10<br><u>× 7</u><br>70  | 2<br><u>× 9</u><br>18    | 5<br><u>× 9</u><br>45  | 11<br><u>× 9</u><br>99 | 12<br><u>× 11</u><br>132 | 10<br><u>× 10</u><br>100 | 2<br><u>× 8</u><br>16    | 1<br><u>× 1</u><br>1   | 12<br><u>× 4</u><br>48 | 3<br><u>× 5</u><br>15    |
| 10<br><u>× 6</u><br>60  | 8<br><u>× 7</u><br>56    | 3<br><u>× 11</u><br>33 | 12<br><u>× 8</u><br>96 | 5<br><u>× 5</u><br>25    | 11<br><u>× 7</u><br>77   | 7<br><u>× 10</u><br>70   | 6<br><u>× 7</u><br>42  | 4<br><u>× 1</u><br>4   | 11<br><u>× 10</u><br>110 |
| 5<br><u>× 4</u><br>20   | 2<br><u>× 5</u><br>10    | 9<br><u>× 8</u><br>72  | 7<br><u>× 11</u><br>77 | 6<br><u>× 4</u><br>24    | 6<br><u>× 11</u><br>66   | 6<br><u>× 1</u><br>6     | 2<br><u>× 7</u><br>14  | 1<br><u>× 2</u><br>2   | 2<br><u>× 12</u><br>24   |
| 6<br><u>× 5</u><br>30   | 1<br><u>× 8</u><br>8     | 9<br><u>× 7</u><br>63  | 7<br><u>× 9</u><br>63  | 4<br><u>× 10</u><br>40   | 8<br><u>× 10</u><br>80   | 5<br><u>× 12</u><br>60   | 5<br><u>× 7</u><br>35  | 5<br><u>× 10</u><br>50 | 7<br><u>× 8</u><br>56    |
| 9<br><u>× 12</u><br>108 | 5<br><u>× 11</u><br>55   | 4<br><u>× 3</u><br>12  | 1<br><u>× 7</u><br>7   | 9<br><u>× 6</u><br>54    | 1<br><u>× 10</u><br>10   | 4<br><u>× 5</u><br>20    | 11<br><u>× 2</u><br>22 | 6<br><u>× 12</u><br>72 | 9<br><u>× 4</u><br>36    |
| 10<br><u>× 3</u><br>30  | 10<br><u>× 9</u><br>90   | 8<br><u>× 8</u><br>64  | 4<br><u>× 11</u><br>44 | 12<br><u>× 12</u><br>144 | 11<br><u>× 12</u><br>132 | 10<br><u>× 8</u><br>80   | 7<br><u>× 12</u><br>84 | 12<br><u>× 1</u><br>12 | 6<br><u>× 9</u><br>54    |
| 1<br><u>× 3</u><br>3    | 11<br><u>× 11</u><br>121 | 8<br><u>× 12</u><br>96 | 4<br><u>× 8</u><br>32  | 10<br><u>× 11</u><br>110 | 9<br><u>× 11</u><br>99   | 3<br><u>× 9</u><br>27    | 7<br><u>× 3</u><br>21  | 9<br><u>× 10</u><br>90 | 12<br><u>× 9</u><br>108  |
| 5<br><u>× 1</u><br>5    | 3<br><u>× 3</u><br>9     | 3<br><u>× 6</u><br>18  | 1<br><u>× 11</u><br>11 | 8<br><u>× 9</u><br>72    | 4<br><u>× 4</u><br>16    | 10<br><u>× 12</u><br>120 | 7<br><u>× 7</u><br>49  | 12<br><u>× 6</u><br>72 | 7<br><u>× 4</u><br>28    |



# Multiplication Facts to 144 (R) Answers

Note: All facts appear at least once.

|                                |                               |                              |                                |                              |                                |                                |                                |                                |                                |
|--------------------------------|-------------------------------|------------------------------|--------------------------------|------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| 6<br>$\times 9$<br><hr/> 54    | 7<br>$\times 3$<br><hr/> 21   | 5<br>$\times 4$<br><hr/> 20  | 12<br>$\times 1$<br><hr/> 12   | 8<br>$\times 8$<br><hr/> 64  | 7<br>$\times 8$<br><hr/> 56    | 12<br>$\times 8$<br><hr/> 96   | 2<br>$\times 10$<br><hr/> 20   | 9<br>$\times 9$<br><hr/> 81    | 7<br>$\times 11$<br><hr/> 77   |
| 3<br>$\times 1$<br><hr/> 3     | 2<br>$\times 4$<br><hr/> 8    | 3<br>$\times 3$<br><hr/> 9   | 10<br>$\times 11$<br><hr/> 110 | 5<br>$\times 5$<br><hr/> 25  | 9<br>$\times 10$<br><hr/> 90   | 12<br>$\times 11$<br><hr/> 132 | 6<br>$\times 4$<br><hr/> 24    | 11<br>$\times 11$<br><hr/> 121 | 3<br>$\times 5$<br><hr/> 15    |
| 9<br>$\times 11$<br><hr/> 99   | 12<br>$\times 9$<br><hr/> 108 | 7<br>$\times 12$<br><hr/> 84 | 6<br>$\times 3$<br><hr/> 18    | 10<br>$\times 6$<br><hr/> 60 | 12<br>$\times 10$<br><hr/> 120 | 8<br>$\times 1$<br><hr/> 8     | 4<br>$\times 3$<br><hr/> 12    | 11<br>$\times 12$<br><hr/> 132 | 7<br>$\times 5$<br><hr/> 35    |
| 10<br>$\times 4$<br><hr/> 40   | 8<br>$\times 2$<br><hr/> 16   | 2<br>$\times 6$<br><hr/> 12  | 4<br>$\times 7$<br><hr/> 28    | 9<br>$\times 8$<br><hr/> 72  | 3<br>$\times 12$<br><hr/> 36   | 1<br>$\times 11$<br><hr/> 11   | 10<br>$\times 10$<br><hr/> 100 | 12<br>$\times 6$<br><hr/> 72   | 2<br>$\times 5$<br><hr/> 10    |
| 12<br>$\times 12$<br><hr/> 144 | 6<br>$\times 12$<br><hr/> 72  | 9<br>$\times 6$<br><hr/> 54  | 8<br>$\times 10$<br><hr/> 80   | 6<br>$\times 10$<br><hr/> 60 | 1<br>$\times 1$<br><hr/> 1     | 10<br>$\times 8$<br><hr/> 80   | 10<br>$\times 1$<br><hr/> 10   | 12<br>$\times 2$<br><hr/> 24   | 2<br>$\times 3$<br><hr/> 6     |
| 6<br>$\times 11$<br><hr/> 66   | 6<br>$\times 5$<br><hr/> 30   | 8<br>$\times 6$<br><hr/> 48  | 2<br>$\times 11$<br><hr/> 22   | 9<br>$\times 5$<br><hr/> 45  | 1<br>$\times 6$<br><hr/> 6     | 6<br>$\times 8$<br><hr/> 48    | 3<br>$\times 9$<br><hr/> 27    | 4<br>$\times 4$<br><hr/> 16    | 6<br>$\times 7$<br><hr/> 42    |
| 11<br>$\times 8$<br><hr/> 88   | 4<br>$\times 1$<br><hr/> 4    | 10<br>$\times 9$<br><hr/> 90 | 9<br>$\times 7$<br><hr/> 63    | 5<br>$\times 11$<br><hr/> 55 | 10<br>$\times 12$<br><hr/> 120 | 10<br>$\times 5$<br><hr/> 50   | 7<br>$\times 1$<br><hr/> 7     | 8<br>$\times 12$<br><hr/> 96   | 11<br>$\times 6$<br><hr/> 66   |
| 8<br>$\times 9$<br><hr/> 72    | 3<br>$\times 8$<br><hr/> 24   | 5<br>$\times 1$<br><hr/> 5   | 4<br>$\times 8$<br><hr/> 32    | 3<br>$\times 10$<br><hr/> 30 | 8<br>$\times 11$<br><hr/> 88   | 11<br>$\times 9$<br><hr/> 99   | 7<br>$\times 2$<br><hr/> 14    | 5<br>$\times 8$<br><hr/> 40    | 1<br>$\times 9$<br><hr/> 9     |
| 2<br>$\times 2$<br><hr/> 4     | 4<br>$\times 11$<br><hr/> 44  | 7<br>$\times 6$<br><hr/> 42  | 8<br>$\times 7$<br><hr/> 56    | 2<br>$\times 1$<br><hr/> 2   | 7<br>$\times 7$<br><hr/> 49    | 12<br>$\times 7$<br><hr/> 84   | 5<br>$\times 4$<br><hr/> 20    | 7<br>$\times 10$<br><hr/> 70   | 11<br>$\times 10$<br><hr/> 110 |
| 7<br>$\times 9$<br><hr/> 63    | 9<br>$\times 4$<br><hr/> 36   | 6<br>$\times 6$<br><hr/> 36  | 11<br>$\times 7$<br><hr/> 77   | 10<br>$\times 7$<br><hr/> 70 | 5<br>$\times 12$<br><hr/> 60   | 9<br>$\times 2$<br><hr/> 18    | 9<br>$\times 12$<br><hr/> 108  | 3<br>$\times 11$<br><hr/> 33   | 4<br>$\times 12$<br><hr/> 48   |



# Multiplication Facts to 144 (S) Answers

Note: All facts appear at least once.

|  |  |  |  |  |   |  |  |  |  |
|--|--|--|--|--|---|--|--|--|--|
| $\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array}$   | $\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$   | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$   | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$  | $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$   | $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$  | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$   | $\begin{array}{r} 1 \\ \times 11 \\ \hline 11 \end{array}$   |
| $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$   | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$  | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$   | $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$  | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$ | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$   | $\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$   | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$     |
| $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$    | $\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$   | $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$    | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$ | $\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$    | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$  | $\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$    | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$   | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$  |
| $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$   | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$  | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$   | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$  | $\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$    | $\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$  | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$    | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$    | $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$    |
| $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$   | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$  | $\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$   | $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$     | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$ | $\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$  | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$ | $\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$     | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$    | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ |
| $\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$   | $\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$ | $\begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array}$   | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$    | $\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$  | $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$  | $\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$   | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$   | $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$    | $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$    |
| $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$   | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$    | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$  | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$    | $\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$  | $\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$    | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$   | $\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$   |
| $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$   | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$  | $\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$    | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$   | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$   | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$  | $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$   | $\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$    | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$   |
| $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ | $\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$  | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$   | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$   | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$  | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$   | $\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$ | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$   | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$    | $\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$   |
| $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$   | $\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$  | $\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$     | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$    | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$  | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$  | $\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$  | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$     | $\begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array}$   | $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$   |



# Multiplication Facts to 144 (T) Answers

Note: All facts appear at least once.

|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
| $\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$ | $\begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array}$   | $\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$ | $\begin{array}{r} 9 \\ \times 12 \\ \hline 108 \end{array}$  | $\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$    | $\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$ | $\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$   | $\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$    | $\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$ | $\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$    |
| $\begin{array}{r} 11 \\ \times 1 \\ \hline 11 \end{array}$ | $\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$    | $\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array}$ | $\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$    | $\begin{array}{r} 1 \\ \times 12 \\ \hline 12 \end{array}$   | $\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$  | $\begin{array}{r} 10 \\ \times 8 \\ \hline 80 \end{array}$ | $\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$   | $\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$  | $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$    |
| $\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$ | $\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$    | $\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$   | $\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$     | $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$    | $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$  | $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$ | $\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$    | $\begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array}$ | $\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$    |
| $\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$  | $\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$   | $\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$   | $\begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$   | $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$     | $\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$  | $\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$ | $\begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array}$   | $\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$  | $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$     |
| $\begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$ | $\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$  | $\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$  | $\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$ | $\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array}$   | $\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$ | $\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$  | $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$    | $\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$ | $\begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array}$   |
| $\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$ | $\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$    | $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$  | $\begin{array}{r} 9 \\ \times 11 \\ \hline 99 \end{array}$   | $\begin{array}{r} 12 \\ \times 11 \\ \hline 132 \end{array}$ | $\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$   | $\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$   | $\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$ | $\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$ | $\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$ |
| $\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$  | $\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$ | $\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$  | $\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$    | $\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$   | $\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$ | $\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$  | $\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$    | $\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$  | $\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$   |
| $\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$ | $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$    | $\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$  | $\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$   | $\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$    | $\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$  | $\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$ | $\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$ | $\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$ | $\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$    |
| $\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$ | $\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$     | $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$ | $\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$    | $\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$   | $\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$  | $\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$   | $\begin{array}{r} 9 \\ \times 1 \\ \hline 9 \end{array}$     | $\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$  | $\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$   |
| $\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$  | $\begin{array}{r} 10 \\ \times 12 \\ \hline 120 \end{array}$ | $\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$  | $\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$   | $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$    | $\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \end{array}$   | $\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$   | $\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$ | $\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$  | $\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$ |