

Distributive Property Multiplication (F)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 345×6

$$\begin{aligned} &= (300 + 40 + 5) \times (6) \\ &= (300 \times 6) + (40 \times 6) + (5 \times 6) \\ &= 1800 + 240 + 30 = \boxed{2070} \end{aligned}$$

1. 800×5

6. 248×7

2. 874×3

7. 611×6

3. 157×4

8. 562×3

4. 377×6

9. 689×2

5. 154×8

10. 797×7

Distributive Property Multiplication (F) Answers

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1. 800×5

$$\begin{aligned} &= (800 + 0 + 0) \times (5) \\ &= (800 \times 5) + (0 \times 5) + (0 \times 5) \\ &= 4000 + 0 + 0 = \boxed{4000} \end{aligned}$$

6. 248×7

$$\begin{aligned} &= (200 + 40 + 8) \times (7) \\ &= (200 \times 7) + (40 \times 7) + (8 \times 7) \\ &= 1400 + 280 + 56 = \boxed{1736} \end{aligned}$$

2. 874×3

$$\begin{aligned} &= (800 + 70 + 4) \times (3) \\ &= (800 \times 3) + (70 \times 3) + (4 \times 3) \\ &= 2400 + 210 + 12 = \boxed{2622} \end{aligned}$$

7. 611×6

$$\begin{aligned} &= (600 + 10 + 1) \times (6) \\ &= (600 \times 6) + (10 \times 6) + (1 \times 6) \\ &= 3600 + 60 + 6 = \boxed{3666} \end{aligned}$$

3. 157×4

$$\begin{aligned} &= (100 + 50 + 7) \times (4) \\ &= (100 \times 4) + (50 \times 4) + (7 \times 4) \\ &= 400 + 200 + 28 = \boxed{628} \end{aligned}$$

8. 562×3

$$\begin{aligned} &= (500 + 60 + 2) \times (3) \\ &= (500 \times 3) + (60 \times 3) + (2 \times 3) \\ &= 1500 + 180 + 6 = \boxed{1686} \end{aligned}$$

4. 377×6

$$\begin{aligned} &= (300 + 70 + 7) \times (6) \\ &= (300 \times 6) + (70 \times 6) + (7 \times 6) \\ &= 1800 + 420 + 42 = \boxed{2262} \end{aligned}$$

9. 689×2

$$\begin{aligned} &= (600 + 80 + 9) \times (2) \\ &= (600 \times 2) + (80 \times 2) + (9 \times 2) \\ &= 1200 + 160 + 18 = \boxed{1378} \end{aligned}$$

5. 154×8

$$\begin{aligned} &= (100 + 50 + 4) \times (8) \\ &= (100 \times 8) + (50 \times 8) + (4 \times 8) \\ &= 800 + 400 + 32 = \boxed{1232} \end{aligned}$$

10. 797×7

$$\begin{aligned} &= (700 + 90 + 7) \times (7) \\ &= (700 \times 7) + (90 \times 7) + (7 \times 7) \\ &= 4900 + 630 + 49 = \boxed{5579} \end{aligned}$$