

Distributive Property Multiplication (H)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 268×7
 $= (200 + 60 + 8) \times (7)$
 $= (200 \times 7) + (60 \times 7) + (8 \times 7)$
 $= 1400 + 420 + 56 = \boxed{1876}$

1. 716×8

6. 908×4

2. 982×3

7. 541×2

3. 743×2

8. 908×6

4. 298×6

9. 542×6

5. 936×4

10. 135×4

Distributive Property Multiplication (H) Answers

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Ex. 268×7

$$\begin{aligned} &= (200 + 60 + 8) \times (7) \\ &= (200 \times 7) + (60 \times 7) + (8 \times 7) \\ &= 1400 + 420 + 56 = \boxed{1876} \end{aligned}$$

1. 716×8

$$\begin{aligned} &= (700 + 10 + 6) \times (8) \\ &= (700 \times 8) + (10 \times 8) + (6 \times 8) \\ &= 5600 + 80 + 48 = \boxed{5728} \end{aligned}$$

6. 908×4

$$\begin{aligned} &= (900 + 0 + 8) \times (4) \\ &= (900 \times 4) + (0 \times 4) + (8 \times 4) \\ &= 3600 + 0 + 32 = \boxed{3632} \end{aligned}$$

2. 982×3

$$\begin{aligned} &= (900 + 80 + 2) \times (3) \\ &= (900 \times 3) + (80 \times 3) + (2 \times 3) \\ &= 2700 + 240 + 6 = \boxed{2946} \end{aligned}$$

7. 541×2

$$\begin{aligned} &= (500 + 40 + 1) \times (2) \\ &= (500 \times 2) + (40 \times 2) + (1 \times 2) \\ &= 1000 + 80 + 2 = \boxed{1082} \end{aligned}$$

3. 743×2

$$\begin{aligned} &= (700 + 40 + 3) \times (2) \\ &= (700 \times 2) + (40 \times 2) + (3 \times 2) \\ &= 1400 + 80 + 6 = \boxed{1486} \end{aligned}$$

8. 908×6

$$\begin{aligned} &= (900 + 0 + 8) \times (6) \\ &= (900 \times 6) + (0 \times 6) + (8 \times 6) \\ &= 5400 + 0 + 48 = \boxed{5448} \end{aligned}$$

4. 298×6

$$\begin{aligned} &= (200 + 90 + 8) \times (6) \\ &= (200 \times 6) + (90 \times 6) + (8 \times 6) \\ &= 1200 + 540 + 48 = \boxed{1788} \end{aligned}$$

9. 542×6

$$\begin{aligned} &= (500 + 40 + 2) \times (6) \\ &= (500 \times 6) + (40 \times 6) + (2 \times 6) \\ &= 3000 + 240 + 12 = \boxed{3252} \end{aligned}$$

5. 936×4

$$\begin{aligned} &= (900 + 30 + 6) \times (4) \\ &= (900 \times 4) + (30 \times 4) + (6 \times 4) \\ &= 3600 + 120 + 24 = \boxed{3744} \end{aligned}$$

10. 135×4

$$\begin{aligned} &= (100 + 30 + 5) \times (4) \\ &= (100 \times 4) + (30 \times 4) + (5 \times 4) \\ &= 400 + 120 + 20 = \boxed{540} \end{aligned}$$