

Distributive Property Multiplication (E)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 3730×5
 $= (3000 + 700 + 30 + 0) \times (5)$
 $= (3000 \times 5) + (700 \times 5) + (30 \times 5) + (0 \times 5)$
 $= 15000 + 3500 + 150 + 0 = \boxed{18650}$

1. 2012×2

2. 9706×2

3. 3992×5

4. 8706×9

5. 1482×6

Distributive Property Multiplication (E) Answers

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Ex. 3730×5

$$\begin{aligned} &= (3000 + 700 + 30 + 0) \times (5) \\ &= (3000 \times 5) + (700 \times 5) + (30 \times 5) + (0 \times 5) \\ &= 15000 + 3500 + 150 + 0 = \boxed{18650} \end{aligned}$$

1. 2012×2

$$\begin{aligned} &= (2000 + 0 + 10 + 2) \times (2) \\ &= (2000 \times 2) + (0 \times 2) + (10 \times 2) + (2 \times 2) \\ &= 4000 + 0 + 20 + 4 = \boxed{4024} \end{aligned}$$

2. 9706×2

$$\begin{aligned} &= (9000 + 700 + 0 + 6) \times (2) \\ &= (9000 \times 2) + (700 \times 2) + (0 \times 2) + (6 \times 2) \\ &= 18000 + 1400 + 0 + 12 = \boxed{19412} \end{aligned}$$

3. 3992×5

$$\begin{aligned} &= (3000 + 900 + 90 + 2) \times (5) \\ &= (3000 \times 5) + (900 \times 5) + (90 \times 5) + (2 \times 5) \\ &= 15000 + 4500 + 450 + 10 = \boxed{19960} \end{aligned}$$

4. 8706×9

$$\begin{aligned} &= (8000 + 700 + 0 + 6) \times (9) \\ &= (8000 \times 9) + (700 \times 9) + (0 \times 9) + (6 \times 9) \\ &= 72000 + 6300 + 0 + 54 = \boxed{78354} \end{aligned}$$

5. 1482×6

$$\begin{aligned} &= (1000 + 400 + 80 + 2) \times (6) \\ &= (1000 \times 6) + (400 \times 6) + (80 \times 6) + (2 \times 6) \\ &= 6000 + 2400 + 480 + 12 = \boxed{8892} \end{aligned}$$