

Distributive Property Multiplication (J)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 5375×3
 $= (5000 + 300 + 70 + 5) \times (3)$
 $= (5000 \times 3) + (300 \times 3) + (70 \times 3) + (5 \times 3)$
 $= 15000 + 900 + 210 + 15 = \boxed{16125}$

1. 6132×6

2. 8246×7

3. 8238×9

4. 8421×9

5. 4155×3

Distributive Property Multiplication (J) Answers

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Use the distributive property of multiplication to calculate each product.

Ex. 5375×3

$$\begin{aligned} &= (5000 + 300 + 70 + 5) \times (3) \\ &= (5000 \times 3) + (300 \times 3) + (70 \times 3) + (5 \times 3) \\ &= 15000 + 900 + 210 + 15 = \boxed{16125} \end{aligned}$$

1. 6132×6

$$\begin{aligned} &= (6000 + 100 + 30 + 2) \times (6) \\ &= (6000 \times 6) + (100 \times 6) + (30 \times 6) + (2 \times 6) \\ &= 36000 + 600 + 180 + 12 = \boxed{36792} \end{aligned}$$

2. 8246×7

$$\begin{aligned} &= (8000 + 200 + 40 + 6) \times (7) \\ &= (8000 \times 7) + (200 \times 7) + (40 \times 7) + (6 \times 7) \\ &= 56000 + 1400 + 280 + 42 = \boxed{57722} \end{aligned}$$

3. 8238×9

$$\begin{aligned} &= (8000 + 200 + 30 + 8) \times (9) \\ &= (8000 \times 9) + (200 \times 9) + (30 \times 9) + (8 \times 9) \\ &= 72000 + 1800 + 270 + 72 = \boxed{74142} \end{aligned}$$

4. 8421×9

$$\begin{aligned} &= (8000 + 400 + 20 + 1) \times (9) \\ &= (8000 \times 9) + (400 \times 9) + (20 \times 9) + (1 \times 9) \\ &= 72000 + 3600 + 180 + 9 = \boxed{75789} \end{aligned}$$

5. 4155×3

$$\begin{aligned} &= (4000 + 100 + 50 + 5) \times (3) \\ &= (4000 \times 3) + (100 \times 3) + (50 \times 3) + (5 \times 3) \\ &= 12000 + 300 + 150 + 15 = \boxed{12465} \end{aligned}$$