

Distributive Property Multiplication (G)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 4001×3

$$\begin{aligned} &= (4000 + 0 + 0 + 1) \times (3) \\ &= (4000 \times 3) + (0 \times 3) + (0 \times 3) + (1 \times 3) \\ &= 12000 + 0 + 0 + 3 = \boxed{12003} \end{aligned}$$

1. 5598×9

2. 3814×4

3. 8016×6

4. 7826×2

5. 6715×3

Distributive Property Multiplication (G) Answers

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1. 5598×9

$$\begin{aligned} &= (5000 + 500 + 90 + 8) \times (9) \\ &= (5000 \times 9) + (500 \times 9) + (90 \times 9) + (8 \times 9) \\ &= 45000 + 4500 + 810 + 72 = \boxed{50382} \end{aligned}$$

2. 3814×4

$$\begin{aligned} &= (3000 + 800 + 10 + 4) \times (4) \\ &= (3000 \times 4) + (800 \times 4) + (10 \times 4) + (4 \times 4) \\ &= 12000 + 3200 + 40 + 16 = \boxed{15256} \end{aligned}$$

3. 8016×6

$$\begin{aligned} &= (8000 + 0 + 10 + 6) \times (6) \\ &= (8000 \times 6) + (0 \times 6) + (10 \times 6) + (6 \times 6) \\ &= 48000 + 0 + 60 + 36 = \boxed{48096} \end{aligned}$$

4. 7826×2

$$\begin{aligned} &= (7000 + 800 + 20 + 6) \times (2) \\ &= (7000 \times 2) + (800 \times 2) + (20 \times 2) + (6 \times 2) \\ &= 14000 + 1600 + 40 + 12 = \boxed{15652} \end{aligned}$$

5. 6715×3

$$\begin{aligned} &= (6000 + 700 + 10 + 5) \times (3) \\ &= (6000 \times 3) + (700 \times 3) + (10 \times 3) + (5 \times 3) \\ &= 18000 + 2100 + 30 + 15 = \boxed{20145} \end{aligned}$$