

Distributive Property Multiplication (C)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 1954×7

$$\begin{aligned} &= (1000 + 900 + 50 + 4) \times (7) \\ &= (1000 \times 7) + (900 \times 7) + (50 \times 7) + (4 \times 7) \\ &= 7000 + 6300 + 350 + 28 = \boxed{13678} \end{aligned}$$

1. 5076×2

2. 1418×5

3. 6201×8

4. 5573×3

5. 3514×9

Distributive Property Multiplication (C) Answers

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1. 5076×2

$$\begin{aligned} &= (5000 + 0 + 70 + 6) \times (2) \\ &= (5000 \times 2) + (0 \times 2) + (70 \times 2) + (6 \times 2) \\ &= 10000 + 0 + 140 + 12 = \boxed{10152} \end{aligned}$$

2. 1418×5

$$\begin{aligned} &= (1000 + 400 + 10 + 8) \times (5) \\ &= (1000 \times 5) + (400 \times 5) + (10 \times 5) + (8 \times 5) \\ &= 5000 + 2000 + 50 + 40 = \boxed{7090} \end{aligned}$$

3. 6201×8

$$\begin{aligned} &= (6000 + 200 + 0 + 1) \times (8) \\ &= (6000 \times 8) + (200 \times 8) + (0 \times 8) + (1 \times 8) \\ &= 48000 + 1600 + 0 + 8 = \boxed{49608} \end{aligned}$$

4. 5573×3

$$\begin{aligned} &= (5000 + 500 + 70 + 3) \times (3) \\ &= (5000 \times 3) + (500 \times 3) + (70 \times 3) + (3 \times 3) \\ &= 15000 + 1500 + 210 + 9 = \boxed{16719} \end{aligned}$$

5. 3514×9

$$\begin{aligned} &= (3000 + 500 + 10 + 4) \times (9) \\ &= (3000 \times 9) + (500 \times 9) + (10 \times 9) + (4 \times 9) \\ &= 27000 + 4500 + 90 + 36 = \boxed{31626} \end{aligned}$$