

Distributive Property Multiplication (C)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 48369×8

$$\begin{aligned} &= (40000 + 8000 + 300 + 60 + 9) \times (8) \\ &= (40000 \times 8) + (8000 \times 8) + (300 \times 8) + (60 \times 8) + (9 \times 8) \\ &= 320000 + 64000 + 2400 + 480 + 72 = \boxed{386952} \end{aligned}$$

1. 14387×7

2. 98896×2

3. 73179×8

4. 12104×2

5. 96465×3

Distributive Property Multiplication (C) Answers

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1. 14387×7

$$\begin{aligned} &= (10000 + 4000 + 300 + 80 + 7) \times (7) \\ &= (10000 \times 7) + (4000 \times 7) + (300 \times 7) + (80 \times 7) + (7 \times 7) \\ &= 70000 + 28000 + 2100 + 560 + 49 = \boxed{100709} \end{aligned}$$

2. 98896×2

$$\begin{aligned} &= (90000 + 8000 + 800 + 90 + 6) \times (2) \\ &= (90000 \times 2) + (8000 \times 2) + (800 \times 2) + (90 \times 2) + (6 \times 2) \\ &= 180000 + 16000 + 1600 + 180 + 12 = \boxed{197792} \end{aligned}$$

3. 73179×8

$$\begin{aligned} &= (70000 + 3000 + 100 + 70 + 9) \times (8) \\ &= (70000 \times 8) + (3000 \times 8) + (100 \times 8) + (70 \times 8) + (9 \times 8) \\ &= 560000 + 24000 + 800 + 560 + 72 = \boxed{585432} \end{aligned}$$

4. 12104×2

$$\begin{aligned} &= (10000 + 2000 + 100 + 0 + 4) \times (2) \\ &= (10000 \times 2) + (2000 \times 2) + (100 \times 2) + (0 \times 2) + (4 \times 2) \\ &= 20000 + 4000 + 200 + 0 + 8 = \boxed{24208} \end{aligned}$$

5. 96465×3

$$\begin{aligned} &= (90000 + 6000 + 400 + 60 + 5) \times (3) \\ &= (90000 \times 3) + (6000 \times 3) + (400 \times 3) + (60 \times 3) + (5 \times 3) \\ &= 270000 + 18000 + 1200 + 180 + 15 = \boxed{289395} \end{aligned}$$