

Distributive Property Multiplication (D)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 4467×8

$$\begin{aligned} &= (4000 + 400 + 60 + 7) \times (8) \\ &= (4000 \times 8) + (400 \times 8) + (60 \times 8) + (7 \times 8) \\ &= 32000 + 3200 + 480 + 56 = \boxed{35736} \end{aligned}$$

1. 8197×6

2. 2991×2

3. 4595×4

4. 3174×8

5. 3662×7

Distributive Property Multiplication (D) Answers

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1. 8197×6

$$\begin{aligned} &= (8000 + 100 + 90 + 7) \times (6) \\ &= (8000 \times 6) + (100 \times 6) + (90 \times 6) + (7 \times 6) \\ &= 48000 + 600 + 540 + 42 = \boxed{49182} \end{aligned}$$

2. 2991×2

$$\begin{aligned} &= (2000 + 900 + 90 + 1) \times (2) \\ &= (2000 \times 2) + (900 \times 2) + (90 \times 2) + (1 \times 2) \\ &= 4000 + 1800 + 180 + 2 = \boxed{5982} \end{aligned}$$

3. 4595×4

$$\begin{aligned} &= (4000 + 500 + 90 + 5) \times (4) \\ &= (4000 \times 4) + (500 \times 4) + (90 \times 4) + (5 \times 4) \\ &= 16000 + 2000 + 360 + 20 = \boxed{18380} \end{aligned}$$

4. 3174×8

$$\begin{aligned} &= (3000 + 100 + 70 + 4) \times (8) \\ &= (3000 \times 8) + (100 \times 8) + (70 \times 8) + (4 \times 8) \\ &= 24000 + 800 + 560 + 32 = \boxed{25392} \end{aligned}$$

5. 3662×7

$$\begin{aligned} &= (3000 + 600 + 60 + 2) \times (7) \\ &= (3000 \times 7) + (600 \times 7) + (60 \times 7) + (2 \times 7) \\ &= 21000 + 4200 + 420 + 14 = \boxed{25634} \end{aligned}$$