

Distributive Property Multiplication (H)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 3056×7

$$\begin{aligned} &= (3000 + 0 + 50 + 6) \times (7) \\ &= (3000 \times 7) + (0 \times 7) + (50 \times 7) + (6 \times 7) \\ &= 21000 + 0 + 350 + 42 = \boxed{21392} \end{aligned}$$

1. 3475×7

2. 6266×5

3. 7334×2

4. 2882×8

5. 6382×5

Distributive Property Multiplication (H) Answers

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1. 3475×7

$$\begin{aligned} &= (3000 + 400 + 70 + 5) \times (7) \\ &= (3000 \times 7) + (400 \times 7) + (70 \times 7) + (5 \times 7) \\ &= 21000 + 2800 + 490 + 35 = \boxed{24325} \end{aligned}$$

2. 6266×5

$$\begin{aligned} &= (6000 + 200 + 60 + 6) \times (5) \\ &= (6000 \times 5) + (200 \times 5) + (60 \times 5) + (6 \times 5) \\ &= 30000 + 1000 + 300 + 30 = \boxed{31330} \end{aligned}$$

3. 7334×2

$$\begin{aligned} &= (7000 + 300 + 30 + 4) \times (2) \\ &= (7000 \times 2) + (300 \times 2) + (30 \times 2) + (4 \times 2) \\ &= 14000 + 600 + 60 + 8 = \boxed{14668} \end{aligned}$$

4. 2882×8

$$\begin{aligned} &= (2000 + 800 + 80 + 2) \times (8) \\ &= (2000 \times 8) + (800 \times 8) + (80 \times 8) + (2 \times 8) \\ &= 16000 + 6400 + 640 + 16 = \boxed{23056} \end{aligned}$$

5. 6382×5

$$\begin{aligned} &= (6000 + 300 + 80 + 2) \times (5) \\ &= (6000 \times 5) + (300 \times 5) + (80 \times 5) + (2 \times 5) \\ &= 30000 + 1500 + 400 + 10 = \boxed{31910} \end{aligned}$$