

Distributive Property Multiplication (H)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 28577×5
 $= (20000 + 8000 + 500 + 70 + 7) \times (5)$
 $= (20000 \times 5) + (8000 \times 5) + (500 \times 5) + (70 \times 5) + (7 \times 5)$
 $= 100000 + 40000 + 2500 + 350 + 35 = 142885$

1. 93683×9

2. 31345×8

3. 62420×4

4. 59087×9

5. 30572×5

Distributive Property Multiplication (H) Answers

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Date: _____

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Use the distributive property of multiplication to calculate each product.

Ex. 28577×5

$$\begin{aligned} &= (20000 + 8000 + 500 + 70 + 7) \times (5) \\ &= (20000 \times 5) + (8000 \times 5) + (500 \times 5) + (70 \times 5) + (7 \times 5) \\ &= 100000 + 40000 + 2500 + 350 + 35 = \boxed{142885} \end{aligned}$$

1. 93683×9

$$\begin{aligned} &= (90000 + 3000 + 600 + 80 + 3) \times (9) \\ &= (90000 \times 9) + (3000 \times 9) + (600 \times 9) + (80 \times 9) + (3 \times 9) \\ &= 810000 + 27000 + 5400 + 720 + 27 = \boxed{843147} \end{aligned}$$

2. 31345×8

$$\begin{aligned} &= (30000 + 1000 + 300 + 40 + 5) \times (8) \\ &= (30000 \times 8) + (1000 \times 8) + (300 \times 8) + (40 \times 8) + (5 \times 8) \\ &= 240000 + 8000 + 2400 + 320 + 40 = \boxed{250760} \end{aligned}$$

3. 62420×4

$$\begin{aligned} &= (60000 + 2000 + 400 + 20 + 0) \times (4) \\ &= (60000 \times 4) + (2000 \times 4) + (400 \times 4) + (20 \times 4) + (0 \times 4) \\ &= 240000 + 8000 + 1600 + 80 + 0 = \boxed{249680} \end{aligned}$$

4. 59087×9

$$\begin{aligned} &= (50000 + 9000 + 0 + 80 + 7) \times (9) \\ &= (50000 \times 9) + (9000 \times 9) + (0 \times 9) + (80 \times 9) + (7 \times 9) \\ &= 450000 + 81000 + 0 + 720 + 63 = \boxed{531783} \end{aligned}$$

5. 30572×5

$$\begin{aligned} &= (30000 + 0 + 500 + 70 + 2) \times (5) \\ &= (30000 \times 5) + (0 \times 5) + (500 \times 5) + (70 \times 5) + (2 \times 5) \\ &= 150000 + 0 + 2500 + 350 + 10 = \boxed{152860} \end{aligned}$$