

Distributive Property Multiplication (F)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 35810×8

$$\begin{aligned} &= (30000 + 5000 + 800 + 10 + 0) \times (8) \\ &= (30000 \times 8) + (5000 \times 8) + (800 \times 8) + (10 \times 8) + (0 \times 8) \\ &= 240000 + 40000 + 6400 + 80 + 0 = \boxed{286480} \end{aligned}$$

1. 32855×8

2. 53768×7

3. 27827×5

4. 93346×3

5. 14024×5

Distributive Property Multiplication (F) Answers

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Ex. 35810×8

$$\begin{aligned} &= (30000 + 5000 + 800 + 10 + 0) \times (8) \\ &= (30000 \times 8) + (5000 \times 8) + (800 \times 8) + (10 \times 8) + (0 \times 8) \\ &= 240000 + 40000 + 6400 + 80 + 0 = \boxed{286480} \end{aligned}$$

1. 32855×8

$$\begin{aligned} &= (30000 + 2000 + 800 + 50 + 5) \times (8) \\ &= (30000 \times 8) + (2000 \times 8) + (800 \times 8) + (50 \times 8) + (5 \times 8) \\ &= 240000 + 16000 + 6400 + 400 + 40 = \boxed{262840} \end{aligned}$$

2. 53768×7

$$\begin{aligned} &= (50000 + 3000 + 700 + 60 + 8) \times (7) \\ &= (50000 \times 7) + (3000 \times 7) + (700 \times 7) + (60 \times 7) + (8 \times 7) \\ &= 350000 + 21000 + 4900 + 420 + 56 = \boxed{376376} \end{aligned}$$

3. 27827×5

$$\begin{aligned} &= (20000 + 7000 + 800 + 20 + 7) \times (5) \\ &= (20000 \times 5) + (7000 \times 5) + (800 \times 5) + (20 \times 5) + (7 \times 5) \\ &= 100000 + 35000 + 4000 + 100 + 35 = \boxed{139135} \end{aligned}$$

4. 93346×3

$$\begin{aligned} &= (90000 + 3000 + 300 + 40 + 6) \times (3) \\ &= (90000 \times 3) + (3000 \times 3) + (300 \times 3) + (40 \times 3) + (6 \times 3) \\ &= 270000 + 9000 + 900 + 120 + 18 = \boxed{280038} \end{aligned}$$

5. 14024×5

$$\begin{aligned} &= (10000 + 4000 + 0 + 20 + 4) \times (5) \\ &= (10000 \times 5) + (4000 \times 5) + (0 \times 5) + (20 \times 5) + (4 \times 5) \\ &= 50000 + 20000 + 0 + 100 + 20 = \boxed{70120} \end{aligned}$$