

Distributive Property Multiplication (H)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 15×35

$$= (10 + 5) \times (30 + 5)$$

$$= (10 \times 30) + (10 \times 5) + (5 \times 30) + (5 \times 5)$$

$$= 300 + 50 + 150 + 25 = \boxed{525}$$

1. 99×24

2. 43×86

3. 16×48

4. 64×24

5. 81×17

Distributive Property Multiplication (H) Answers

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Ex. 15×35

$$\begin{aligned} &= (10 + 5) \times (30 + 5) \\ &= (10 \times 30) + (10 \times 5) + (5 \times 30) + (5 \times 5) \\ &= 300 + 50 + 150 + 25 = \boxed{525} \end{aligned}$$

1. 99×24

$$\begin{aligned} &= (90 + 9) \times (20 + 4) \\ &= (90 \times 20) + (90 \times 4) + (9 \times 20) + (9 \times 4) \\ &= 1800 + 360 + 180 + 36 = \boxed{2376} \end{aligned}$$

2. 43×86

$$\begin{aligned} &= (40 + 3) \times (80 + 6) \\ &= (40 \times 80) + (40 \times 6) + (3 \times 80) + (3 \times 6) \\ &= 3200 + 240 + 240 + 18 = \boxed{3698} \end{aligned}$$

3. 16×48

$$\begin{aligned} &= (10 + 6) \times (40 + 8) \\ &= (10 \times 40) + (10 \times 8) + (6 \times 40) + (6 \times 8) \\ &= 400 + 80 + 240 + 48 = \boxed{768} \end{aligned}$$

4. 64×24

$$\begin{aligned} &= (60 + 4) \times (20 + 4) \\ &= (60 \times 20) + (60 \times 4) + (4 \times 20) + (4 \times 4) \\ &= 1200 + 240 + 80 + 16 = \boxed{1536} \end{aligned}$$

5. 81×17

$$\begin{aligned} &= (80 + 1) \times (10 + 7) \\ &= (80 \times 10) + (80 \times 7) + (1 \times 10) + (1 \times 7) \\ &= 800 + 560 + 10 + 7 = \boxed{1377} \end{aligned}$$