

Distributive Property Multiplication (I)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 312×43

$$\begin{aligned} &= (300 + 10 + 2) \times (40 + 3) \\ &= (300 \times 40) + (300 \times 3) + (10 \times 40) + (10 \times 3) + (2 \times 40) + (2 \times 3) \\ &= 12000 + 900 + 400 + 30 + 80 + 6 = \boxed{13416} \end{aligned}$$

1. 822×63

2. 203×60

3. 149×47

4. 128×63

5. 144×17

Distributive Property Multiplication (I) Answers

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Ex. 312×43

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1. 822×63

$$\begin{aligned} &= (800 + 20 + 2) \times (60 + 3) \\ &= (800 \times 60) + (800 \times 3) + (20 \times 60) + (20 \times 3) + (2 \times 60) + (2 \times 3) \\ &= 48000 + 2400 + 1200 + 60 + 120 + 6 = \boxed{51786} \end{aligned}$$

2. 203×60

$$\begin{aligned} &= (200 + 0 + 3) \times (60 + 0) \\ &= (200 \times 60) + (200 \times 0) + (0 \times 60) + (0 \times 0) + (3 \times 60) + (3 \times 0) \\ &= 12000 + 0 + 0 + 0 + 180 + 0 = \boxed{12180} \end{aligned}$$

3. 149×47

$$\begin{aligned} &= (100 + 40 + 9) \times (40 + 7) \\ &= (100 \times 40) + (100 \times 7) + (40 \times 40) + (40 \times 7) + (9 \times 40) + (9 \times 7) \\ &= 4000 + 700 + 1600 + 280 + 360 + 63 = \boxed{7003} \end{aligned}$$

4. 128×63

$$\begin{aligned} &= (100 + 20 + 8) \times (60 + 3) \\ &= (100 \times 60) + (100 \times 3) + (20 \times 60) + (20 \times 3) + (8 \times 60) + (8 \times 3) \\ &= 6000 + 300 + 1200 + 60 + 480 + 24 = \boxed{8064} \end{aligned}$$

5. 144×17

$$\begin{aligned} &= (100 + 40 + 4) \times (10 + 7) \\ &= (100 \times 10) + (100 \times 7) + (40 \times 10) + (40 \times 7) + (4 \times 10) + (4 \times 7) \\ &= 1000 + 700 + 400 + 280 + 40 + 28 = \boxed{2448} \end{aligned}$$