

Distributive Property Multiplication (J)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 573×17

$$\begin{aligned} &= (500 + 70 + 3) \times (10 + 7) \\ &= (500 \times 10) + (500 \times 7) + (70 \times 10) + (70 \times 7) + (3 \times 10) + (3 \times 7) \\ &= 5000 + 3500 + 700 + 490 + 30 + 21 = \boxed{9741} \end{aligned}$$

1. 169×34

2. 680×66

3. 536×90

4. 583×13

5. 410×47

Distributive Property Multiplication (J) Answers

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1. 169×34

$$\begin{aligned} &= (100 + 60 + 9) \times (30 + 4) \\ &= (100 \times 30) + (100 \times 4) + (60 \times 30) + (60 \times 4) + (9 \times 30) + (9 \times 4) \\ &= 3000 + 400 + 1800 + 240 + 270 + 36 = \boxed{5746} \end{aligned}$$

2. 680×66

$$\begin{aligned} &= (600 + 80 + 0) \times (60 + 6) \\ &= (600 \times 60) + (600 \times 6) + (80 \times 60) + (80 \times 6) + (0 \times 60) + (0 \times 6) \\ &= 36000 + 3600 + 4800 + 480 + 0 + 0 = \boxed{44880} \end{aligned}$$

3. 536×90

$$\begin{aligned} &= (500 + 30 + 6) \times (90 + 0) \\ &= (500 \times 90) + (500 \times 0) + (30 \times 90) + (30 \times 0) + (6 \times 90) + (6 \times 0) \\ &= 45000 + 0 + 2700 + 0 + 540 + 0 = \boxed{48240} \end{aligned}$$

4. 583×13

$$\begin{aligned} &= (500 + 80 + 3) \times (10 + 3) \\ &= (500 \times 10) + (500 \times 3) + (80 \times 10) + (80 \times 3) + (3 \times 10) + (3 \times 3) \\ &= 5000 + 1500 + 800 + 240 + 30 + 9 = \boxed{7579} \end{aligned}$$

5. 410×47

$$\begin{aligned} &= (400 + 10 + 0) \times (40 + 7) \\ &= (400 \times 40) + (400 \times 7) + (10 \times 40) + (10 \times 7) + (0 \times 40) + (0 \times 7) \\ &= 16000 + 2800 + 400 + 70 + 0 + 0 = \boxed{19270} \end{aligned}$$