

Distributive Property Multiplication (C)

Name: _____

Date: _____

Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 790×14

$$\begin{aligned} &= (700 + 90 + 0) \times (10 + 4) \\ &= (700 \times 10) + (700 \times 4) + (90 \times 10) + (90 \times 4) + (0 \times 10) + (0 \times 4) \\ &= 7000 + 2800 + 900 + 360 + 0 + 0 = \boxed{11060} \end{aligned}$$

1. 694×41

2. 587×90

3. 543×50

4. 292×93

5. 422×66

Distributive Property Multiplication (C) Answers

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1. 694×41

$$\begin{aligned} &= (600 + 90 + 4) \times (40 + 1) \\ &= (600 \times 40) + (600 \times 1) + (90 \times 40) + (90 \times 1) + (4 \times 40) + (4 \times 1) \\ &= 24000 + 600 + 3600 + 90 + 160 + 4 = \boxed{28454} \end{aligned}$$

2. 587×90

$$\begin{aligned} &= (500 + 80 + 7) \times (90 + 0) \\ &= (500 \times 90) + (500 \times 0) + (80 \times 90) + (80 \times 0) + (7 \times 90) + (7 \times 0) \\ &= 45000 + 0 + 7200 + 0 + 630 + 0 = \boxed{52830} \end{aligned}$$

3. 543×50

$$\begin{aligned} &= (500 + 40 + 3) \times (50 + 0) \\ &= (500 \times 50) + (500 \times 0) + (40 \times 50) + (40 \times 0) + (3 \times 50) + (3 \times 0) \\ &= 25000 + 0 + 2000 + 0 + 150 + 0 = \boxed{27150} \end{aligned}$$

4. 292×93

$$\begin{aligned} &= (200 + 90 + 2) \times (90 + 3) \\ &= (200 \times 90) + (200 \times 3) + (90 \times 90) + (90 \times 3) + (2 \times 90) + (2 \times 3) \\ &= 18000 + 600 + 8100 + 270 + 180 + 6 = \boxed{27156} \end{aligned}$$

5. 422×66

$$\begin{aligned} &= (400 + 20 + 2) \times (60 + 6) \\ &= (400 \times 60) + (400 \times 6) + (20 \times 60) + (20 \times 6) + (2 \times 60) + (2 \times 6) \\ &= 24000 + 2400 + 1200 + 120 + 120 + 12 = \boxed{27852} \end{aligned}$$