

## Distributive Property Multiplication (B)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

Use the distributive property of multiplication to calculate each product.

Ex.  $370 \times 33$

$$\begin{aligned} &= (300 + 70 + 0) \times (30 + 3) \\ &= (300 \times 30) + (300 \times 3) + (70 \times 30) + (70 \times 3) + (0 \times 30) + (0 \times 3) \\ &= 9000 + 900 + 2100 + 210 + 0 + 0 = \boxed{12210} \end{aligned}$$

1.  $827 \times 89$

2.  $864 \times 65$

3.  $853 \times 93$

4.  $786 \times 60$

5.  $791 \times 55$

## Distributive Property Multiplication (B) Answers

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Date: \_\_\_\_\_

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Use the distributive property of multiplication to calculate each product.

Ex.  $370 \times 33$

$$\begin{aligned} &= (300 + 70 + 0) \times (30 + 3) \\ &= (300 \times 30) + (300 \times 3) + (70 \times 30) + (70 \times 3) + (0 \times 30) + (0 \times 3) \\ &= 9000 + 900 + 2100 + 210 + 0 + 0 = \boxed{12210} \end{aligned}$$

1.  $827 \times 89$

$$\begin{aligned} &= (800 + 20 + 7) \times (80 + 9) \\ &= (800 \times 80) + (800 \times 9) + (20 \times 80) + (20 \times 9) + (7 \times 80) + (7 \times 9) \\ &= 64000 + 7200 + 1600 + 180 + 560 + 63 = \boxed{73603} \end{aligned}$$

2.  $864 \times 65$

$$\begin{aligned} &= (800 + 60 + 4) \times (60 + 5) \\ &= (800 \times 60) + (800 \times 5) + (60 \times 60) + (60 \times 5) + (4 \times 60) + (4 \times 5) \\ &= 48000 + 4000 + 3600 + 300 + 240 + 20 = \boxed{56160} \end{aligned}$$

3.  $853 \times 93$

$$\begin{aligned} &= (800 + 50 + 3) \times (90 + 3) \\ &= (800 \times 90) + (800 \times 3) + (50 \times 90) + (50 \times 3) + (3 \times 90) + (3 \times 3) \\ &= 72000 + 2400 + 4500 + 150 + 270 + 9 = \boxed{79329} \end{aligned}$$

4.  $786 \times 60$

$$\begin{aligned} &= (700 + 80 + 6) \times (60 + 0) \\ &= (700 \times 60) + (700 \times 0) + (80 \times 60) + (80 \times 0) + (6 \times 60) + (6 \times 0) \\ &= 42000 + 0 + 4800 + 0 + 360 + 0 = \boxed{47160} \end{aligned}$$

5.  $791 \times 55$

$$\begin{aligned} &= (700 + 90 + 1) \times (50 + 5) \\ &= (700 \times 50) + (700 \times 5) + (90 \times 50) + (90 \times 5) + (1 \times 50) + (1 \times 5) \\ &= 35000 + 3500 + 4500 + 450 + 50 + 5 = \boxed{43505} \end{aligned}$$