

## Distributive Property Multiplication (F)

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_

Use the distributive property of multiplication to calculate each product.

Ex.  $6587 \times 9$   
 $= (6000 + 500 + 80 + 7) \times (9)$   
 $= (6000 \times 9) + (500 \times 9) + (80 \times 9) + (7 \times 9)$   
 $= 54000 + 4500 + 720 + 63 = \boxed{59283}$

1.  $2361 \times 8$

2.  $4676 \times 5$

3.  $5778 \times 4$

4.  $5595 \times 8$

5.  $3670 \times 2$

## Distributive Property Multiplication (F) Answers

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

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

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

Use the distributive property of multiplication to calculate each product.

Ex.  $6587 \times 9$

$$\begin{aligned} &= (6000 + 500 + 80 + 7) \times (9) \\ &= (6000 \times 9) + (500 \times 9) + (80 \times 9) + (7 \times 9) \\ &= 54000 + 4500 + 720 + 63 = \boxed{59283} \end{aligned}$$

1.  $2361 \times 8$

$$\begin{aligned} &= (2000 + 300 + 60 + 1) \times (8) \\ &= (2000 \times 8) + (300 \times 8) + (60 \times 8) + (1 \times 8) \\ &= 16000 + 2400 + 480 + 8 = \boxed{18888} \end{aligned}$$

2.  $4676 \times 5$

$$\begin{aligned} &= (4000 + 600 + 70 + 6) \times (5) \\ &= (4000 \times 5) + (600 \times 5) + (70 \times 5) + (6 \times 5) \\ &= 20000 + 3000 + 350 + 30 = \boxed{23380} \end{aligned}$$

3.  $5778 \times 4$

$$\begin{aligned} &= (5000 + 700 + 70 + 8) \times (4) \\ &= (5000 \times 4) + (700 \times 4) + (70 \times 4) + (8 \times 4) \\ &= 20000 + 2800 + 280 + 32 = \boxed{23112} \end{aligned}$$

4.  $5595 \times 8$

$$\begin{aligned} &= (5000 + 500 + 90 + 5) \times (8) \\ &= (5000 \times 8) + (500 \times 8) + (90 \times 8) + (5 \times 8) \\ &= 40000 + 4000 + 720 + 40 = \boxed{44760} \end{aligned}$$

5.  $3670 \times 2$

$$\begin{aligned} &= (3000 + 600 + 70 + 0) \times (2) \\ &= (3000 \times 2) + (600 \times 2) + (70 \times 2) + (0 \times 2) \\ &= 6000 + 1200 + 140 + 0 = \boxed{7340} \end{aligned}$$