

## Distributive Property Multiplication (D)

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

Use the distributive property of multiplication to calculate each product.

Ex.  $21187 \times 4$   
 $= (20000 + 1000 + 100 + 80 + 7) \times (4)$   
 $= (20000 \times 4) + (1000 \times 4) + (100 \times 4) + (80 \times 4) + (7 \times 4)$   
 $= 80000 + 4000 + 400 + 320 + 28 = \boxed{84748}$

1.  $50974 \times 4$

2.  $71204 \times 2$

3.  $36424 \times 5$

4.  $24700 \times 6$

5.  $54357 \times 7$

## Distributive Property Multiplication (D) Answers

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

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

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

Use the distributive property of multiplication to calculate each product.

Ex.  $21187 \times 4$

$$\begin{aligned} &= (20000 + 1000 + 100 + 80 + 7) \times (4) \\ &= (20000 \times 4) + (1000 \times 4) + (100 \times 4) + (80 \times 4) + (7 \times 4) \\ &= 80000 + 4000 + 400 + 320 + 28 = \boxed{84748} \end{aligned}$$

1.  $50974 \times 4$

$$\begin{aligned} &= (50000 + 0 + 900 + 70 + 4) \times (4) \\ &= (50000 \times 4) + (0 \times 4) + (900 \times 4) + (70 \times 4) + (4 \times 4) \\ &= 200000 + 0 + 3600 + 280 + 16 = \boxed{203896} \end{aligned}$$

2.  $71204 \times 2$

$$\begin{aligned} &= (70000 + 1000 + 200 + 0 + 4) \times (2) \\ &= (70000 \times 2) + (1000 \times 2) + (200 \times 2) + (0 \times 2) + (4 \times 2) \\ &= 140000 + 2000 + 400 + 0 + 8 = \boxed{142408} \end{aligned}$$

3.  $36424 \times 5$

$$\begin{aligned} &= (30000 + 6000 + 400 + 20 + 4) \times (5) \\ &= (30000 \times 5) + (6000 \times 5) + (400 \times 5) + (20 \times 5) + (4 \times 5) \\ &= 150000 + 30000 + 2000 + 100 + 20 = \boxed{182120} \end{aligned}$$

4.  $24700 \times 6$

$$\begin{aligned} &= (20000 + 4000 + 700 + 0 + 0) \times (6) \\ &= (20000 \times 6) + (4000 \times 6) + (700 \times 6) + (0 \times 6) + (0 \times 6) \\ &= 120000 + 24000 + 4200 + 0 + 0 = \boxed{148200} \end{aligned}$$

5.  $54357 \times 7$

$$\begin{aligned} &= (50000 + 4000 + 300 + 50 + 7) \times (7) \\ &= (50000 \times 7) + (4000 \times 7) + (300 \times 7) + (50 \times 7) + (7 \times 7) \\ &= 350000 + 28000 + 2100 + 350 + 49 = \boxed{380499} \end{aligned}$$