

Distributive Property Multiplication (D)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 842×76
 $= (800 + 40 + 2) \times (70 + 6)$
 $= (800 \times 70) + (800 \times 6) + (40 \times 70) + (40 \times 6) + (2 \times 70) + (2 \times 6)$
 $= 56000 + 4800 + 2800 + 240 + 140 + 12 = \boxed{63992}$

1. 552×64

2. 485×29

3. 757×32

4. 778×67

5. 770×26

Distributive Property Multiplication (D) Answers

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 842×76

$$\begin{aligned} &= (800 + 40 + 2) \times (70 + 6) \\ &= (800 \times 70) + (800 \times 6) + (40 \times 70) + (40 \times 6) + (2 \times 70) + (2 \times 6) \\ &= 56000 + 4800 + 2800 + 240 + 140 + 12 = \boxed{63992} \end{aligned}$$

1. 552×64

$$\begin{aligned} &= (500 + 50 + 2) \times (60 + 4) \\ &= (500 \times 60) + (500 \times 4) + (50 \times 60) + (50 \times 4) + (2 \times 60) + (2 \times 4) \\ &= 30000 + 2000 + 3000 + 200 + 120 + 8 = \boxed{35328} \end{aligned}$$

2. 485×29

$$\begin{aligned} &= (400 + 80 + 5) \times (20 + 9) \\ &= (400 \times 20) + (400 \times 9) + (80 \times 20) + (80 \times 9) + (5 \times 20) + (5 \times 9) \\ &= 8000 + 3600 + 1600 + 720 + 100 + 45 = \boxed{14065} \end{aligned}$$

3. 757×32

$$\begin{aligned} &= (700 + 50 + 7) \times (30 + 2) \\ &= (700 \times 30) + (700 \times 2) + (50 \times 30) + (50 \times 2) + (7 \times 30) + (7 \times 2) \\ &= 21000 + 1400 + 1500 + 100 + 210 + 14 = \boxed{24224} \end{aligned}$$

4. 778×67

$$\begin{aligned} &= (700 + 70 + 8) \times (60 + 7) \\ &= (700 \times 60) + (700 \times 7) + (70 \times 60) + (70 \times 7) + (8 \times 60) + (8 \times 7) \\ &= 42000 + 4900 + 4200 + 490 + 480 + 56 = \boxed{52126} \end{aligned}$$

5. 770×26

$$\begin{aligned} &= (700 + 70 + 0) \times (20 + 6) \\ &= (700 \times 20) + (700 \times 6) + (70 \times 20) + (70 \times 6) + (0 \times 20) + (0 \times 6) \\ &= 14000 + 4200 + 1400 + 420 + 0 + 0 = \boxed{20020} \end{aligned}$$