

Distributive Property Multiplication (H)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 796×41
 $= (700 + 90 + 6) \times (40 + 1)$
 $= (700 \times 40) + (700 \times 1) + (90 \times 40) + (90 \times 1) + (6 \times 40) + (6 \times 1)$
 $= 28000 + 700 + 3600 + 90 + 240 + 6 = \boxed{32636}$

1. 223×11

2. 156×78

3. 339×88

4. 249×82

5. 890×21

Distributive Property Multiplication (H) Answers

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$$= (700 \times 40) + (700 \times 1) + (90 \times 40) + (90 \times 1) + (6 \times 40) + (6 \times 1)$$

$$= 28000 + 700 + 3600 + 90 + 240 + 6 = \boxed{32636}$$

1. 223×11

$$= (200 + 20 + 3) \times (10 + 1)$$

$$= (200 \times 10) + (200 \times 1) + (20 \times 10) + (20 \times 1) + (3 \times 10) + (3 \times 1)$$

$$= 2000 + 200 + 200 + 20 + 30 + 3 = \boxed{2453}$$

2. 156×78

$$= (100 + 50 + 6) \times (70 + 8)$$

$$= (100 \times 70) + (100 \times 8) + (50 \times 70) + (50 \times 8) + (6 \times 70) + (6 \times 8)$$

$$= 7000 + 800 + 3500 + 400 + 420 + 48 = \boxed{12168}$$

3. 339×88

$$= (300 + 30 + 9) \times (80 + 8)$$

$$= (300 \times 80) + (300 \times 8) + (30 \times 80) + (30 \times 8) + (9 \times 80) + (9 \times 8)$$

$$= 24000 + 2400 + 2400 + 240 + 720 + 72 = \boxed{29832}$$

4. 249×82

$$= (200 + 40 + 9) \times (80 + 2)$$

$$= (200 \times 80) + (200 \times 2) + (40 \times 80) + (40 \times 2) + (9 \times 80) + (9 \times 2)$$

$$= 16000 + 400 + 3200 + 80 + 720 + 18 = \boxed{20418}$$

5. 890×21

$$= (800 + 90 + 0) \times (20 + 1)$$

$$= (800 \times 20) + (800 \times 1) + (90 \times 20) + (90 \times 1) + (0 \times 20) + (0 \times 1)$$

$$= 16000 + 800 + 1800 + 90 + 0 + 0 = \boxed{18690}$$