

## Distributive Property Multiplication (G)

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

Use the distributive property of multiplication to calculate each product.

Ex.  $309 \times 85$   
 $= (300 + 0 + 9) \times (80 + 5)$   
 $= (300 \times 80) + (300 \times 5) + (0 \times 80) + (0 \times 5) + (9 \times 80) + (9 \times 5)$   
 $= 24000 + 1500 + 0 + 0 + 720 + 45 = \boxed{26265}$

1.  $245 \times 78$

2.  $287 \times 88$

3.  $226 \times 98$

4.  $120 \times 71$

5.  $441 \times 93$

## Distributive Property Multiplication (G) Answers

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$$= (300 + 0 + 9) \times (80 + 5)$$

$$= (300 \times 80) + (300 \times 5) + (0 \times 80) + (0 \times 5) + (9 \times 80) + (9 \times 5)$$

$$= 24000 + 1500 + 0 + 0 + 720 + 45 = \boxed{26265}$$

1.  $245 \times 78$

$$= (200 + 40 + 5) \times (70 + 8)$$

$$= (200 \times 70) + (200 \times 8) + (40 \times 70) + (40 \times 8) + (5 \times 70) + (5 \times 8)$$

$$= 14000 + 1600 + 2800 + 320 + 350 + 40 = \boxed{19110}$$

2.  $287 \times 88$

$$= (200 + 80 + 7) \times (80 + 8)$$

$$= (200 \times 80) + (200 \times 8) + (80 \times 80) + (80 \times 8) + (7 \times 80) + (7 \times 8)$$

$$= 16000 + 1600 + 6400 + 640 + 560 + 56 = \boxed{25256}$$

3.  $226 \times 98$

$$= (200 + 20 + 6) \times (90 + 8)$$

$$= (200 \times 90) + (200 \times 8) + (20 \times 90) + (20 \times 8) + (6 \times 90) + (6 \times 8)$$

$$= 18000 + 1600 + 1800 + 160 + 540 + 48 = \boxed{22148}$$

4.  $120 \times 71$

$$= (100 + 20 + 0) \times (70 + 1)$$

$$= (100 \times 70) + (100 \times 1) + (20 \times 70) + (20 \times 1) + (0 \times 70) + (0 \times 1)$$

$$= 7000 + 100 + 1400 + 20 + 0 + 0 = \boxed{8520}$$

5.  $441 \times 93$

$$= (400 + 40 + 1) \times (90 + 3)$$

$$= (400 \times 90) + (400 \times 3) + (40 \times 90) + (40 \times 3) + (1 \times 90) + (1 \times 3)$$

$$= 36000 + 1200 + 3600 + 120 + 90 + 3 = \boxed{41013}$$