

Distributive Property Multiplication (F)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 155×24
 $= (100 + 50 + 5) \times (20 + 4)$
 $= (100 \times 20) + (100 \times 4) + (50 \times 20) + (50 \times 4) + (5 \times 20) + (5 \times 4)$
 $= 2000 + 400 + 1000 + 200 + 100 + 20 = \boxed{3720}$

1. 437×94

2. 265×38

3. 523×47

4. 422×75

5. 999×48

Distributive Property Multiplication (F) Answers

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Ex. 155×24

$$= (100 + 50 + 5) \times (20 + 4)$$

$$= (100 \times 20) + (100 \times 4) + (50 \times 20) + (50 \times 4) + (5 \times 20) + (5 \times 4)$$

$$= 2000 + 400 + 1000 + 200 + 100 + 20 = \boxed{3720}$$

1. 437×94

$$= (400 + 30 + 7) \times (90 + 4)$$

$$= (400 \times 90) + (400 \times 4) + (30 \times 90) + (30 \times 4) + (7 \times 90) + (7 \times 4)$$

$$= 36000 + 1600 + 2700 + 120 + 630 + 28 = \boxed{41078}$$

2. 265×38

$$= (200 + 60 + 5) \times (30 + 8)$$

$$= (200 \times 30) + (200 \times 8) + (60 \times 30) + (60 \times 8) + (5 \times 30) + (5 \times 8)$$

$$= 6000 + 1600 + 1800 + 480 + 150 + 40 = \boxed{10070}$$

3. 523×47

$$= (500 + 20 + 3) \times (40 + 7)$$

$$= (500 \times 40) + (500 \times 7) + (20 \times 40) + (20 \times 7) + (3 \times 40) + (3 \times 7)$$

$$= 20000 + 3500 + 800 + 140 + 120 + 21 = \boxed{24581}$$

4. 422×75

$$= (400 + 20 + 2) \times (70 + 5)$$

$$= (400 \times 70) + (400 \times 5) + (20 \times 70) + (20 \times 5) + (2 \times 70) + (2 \times 5)$$

$$= 28000 + 2000 + 1400 + 100 + 140 + 10 = \boxed{31650}$$

5. 999×48

$$= (900 + 90 + 9) \times (40 + 8)$$

$$= (900 \times 40) + (900 \times 8) + (90 \times 40) + (90 \times 8) + (9 \times 40) + (9 \times 8)$$

$$= 36000 + 7200 + 3600 + 720 + 360 + 72 = \boxed{47952}$$