

Distributive Property Multiplication (E)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 540×58
 $= (500 + 40 + 0) \times (50 + 8)$
 $= (500 \times 50) + (500 \times 8) + (40 \times 50) + (40 \times 8) + (0 \times 50) + (0 \times 8)$
 $= 25000 + 4000 + 2000 + 320 + 0 + 0 = \boxed{31320}$

1. 675×54

2. 288×76

3. 354×14

4. 402×65

5. 376×42

Distributive Property Multiplication (E) Answers

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Ex. 540×58

$$= (500 + 40 + 0) \times (50 + 8)$$

$$= (500 \times 50) + (500 \times 8) + (40 \times 50) + (40 \times 8) + (0 \times 50) + (0 \times 8)$$

$$= 25000 + 4000 + 2000 + 320 + 0 + 0 = \boxed{31320}$$

1. 675×54

$$= (600 + 70 + 5) \times (50 + 4)$$

$$= (600 \times 50) + (600 \times 4) + (70 \times 50) + (70 \times 4) + (5 \times 50) + (5 \times 4)$$

$$= 30000 + 2400 + 3500 + 280 + 250 + 20 = \boxed{36450}$$

2. 288×76

$$= (200 + 80 + 8) \times (70 + 6)$$

$$= (200 \times 70) + (200 \times 6) + (80 \times 70) + (80 \times 6) + (8 \times 70) + (8 \times 6)$$

$$= 14000 + 1200 + 5600 + 480 + 560 + 48 = \boxed{21888}$$

3. 354×14

$$= (300 + 50 + 4) \times (10 + 4)$$

$$= (300 \times 10) + (300 \times 4) + (50 \times 10) + (50 \times 4) + (4 \times 10) + (4 \times 4)$$

$$= 3000 + 1200 + 500 + 200 + 40 + 16 = \boxed{4956}$$

4. 402×65

$$= (400 + 0 + 2) \times (60 + 5)$$

$$= (400 \times 60) + (400 \times 5) + (0 \times 60) + (0 \times 5) + (2 \times 60) + (2 \times 5)$$

$$= 24000 + 2000 + 0 + 0 + 120 + 10 = \boxed{26130}$$

5. 376×42

$$= (300 + 70 + 6) \times (40 + 2)$$

$$= (300 \times 40) + (300 \times 2) + (70 \times 40) + (70 \times 2) + (6 \times 40) + (6 \times 2)$$

$$= 12000 + 600 + 2800 + 140 + 240 + 12 = \boxed{15792}$$