Distributive Property Multiplication (A)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 593×99

$= (500 + 90 + 3) \times (90 + 9)$

$= (500 \times 90) + (500 \times 9) + (90 \times 90) + (90 \times 9) + (3 \times 90) + (3 \times 9)$

$= 45000 + 4500 + 8100 + 810 + 270 + 27 = \boxed{58707}$

1. 373×13

2. 509×69

3. 378×24

4. 565×75

5. 983×80

Distributive Property Multiplication (A) Answers

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 593×99
$= (500 + 90 + 3) \times (90 + 9)$
$= (500 \times 90) + (500 \times 9) + (90 \times 90) + (90 \times 9) + (3 \times 90) + (3 \times 9)$
$= 45000 + 4500 + 8100 + 810 + 270 + 27 = \boxed{58707}$

1. 373×13
$= (300 + 70 + 3) \times (10 + 3)$
$= (300 \times 10) + (300 \times 3) + (70 \times 10) + (70 \times 3) + (3 \times 10) + (3 \times 3)$
$= 3000 + 900 + 700 + 210 + 30 + 9 = \boxed{4849}$

2. 509×69
$= (500 + 0 + 9) \times (60 + 9)$
$= (500 \times 60) + (500 \times 9) + (0 \times 60) + (0 \times 9) + (9 \times 60) + (9 \times 9)$
$= 30000 + 4500 + 0 + 0 + 540 + 81 = \boxed{35121}$

3. 378×24
$= (300 + 70 + 8) \times (20 + 4)$
$= (300 \times 20) + (300 \times 4) + (70 \times 20) + (70 \times 4) + (8 \times 20) + (8 \times 4)$
$= 6000 + 1200 + 1400 + 280 + 160 + 32 = \boxed{9072}$

4. 565×75
$= (500 + 60 + 5) \times (70 + 5)$
$= (500 \times 70) + (500 \times 5) + (60 \times 70) + (60 \times 5) + (5 \times 70) + (5 \times 5)$
$= 35000 + 2500 + 4200 + 300 + 350 + 25 = \boxed{42375}$

5. 983×80
$= (900 + 80 + 3) \times (80 + 0)$
$= (900 \times 80) + (900 \times 0) + (80 \times 80) + (80 \times 0) + (3 \times 80) + (3 \times 0)$
$= 72000 + 0 + 6400 + 0 + 240 + 0 = \boxed{78640}$