

Distributive Property Multiplication (E)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 87×26
 $= (80 + 7) \times (20 + 6)$
 $= (80 \times 20) + (80 \times 6) + (7 \times 20) + (7 \times 6)$
 $= 1600 + 480 + 140 + 42 = \boxed{2262}$

1. 19×72

2. 51×44

3. 38×75

4. 96×69

5. 83×13

Distributive Property Multiplication (E) Answers

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1. 19×72
 $= (10 + 9) \times (70 + 2)$
 $= (10 \times 70) + (10 \times 2) + (9 \times 70) + (9 \times 2)$
 $= 700 + 20 + 630 + 18 = \boxed{1368}$

2. 51×44
 $= (50 + 1) \times (40 + 4)$
 $= (50 \times 40) + (50 \times 4) + (1 \times 40) + (1 \times 4)$
 $= 2000 + 200 + 40 + 4 = \boxed{2244}$

3. 38×75
 $= (30 + 8) \times (70 + 5)$
 $= (30 \times 70) + (30 \times 5) + (8 \times 70) + (8 \times 5)$
 $= 2100 + 150 + 560 + 40 = \boxed{2850}$

4. 96×69
 $= (90 + 6) \times (60 + 9)$
 $= (90 \times 60) + (90 \times 9) + (6 \times 60) + (6 \times 9)$
 $= 5400 + 810 + 360 + 54 = \boxed{6624}$

5. 83×13
 $= (80 + 3) \times (10 + 3)$
 $= (80 \times 10) + (80 \times 3) + (3 \times 10) + (3 \times 3)$
 $= 800 + 240 + 30 + 9 = \boxed{1079}$