

Distributive Property Multiplication (G)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 31×45
 $= (30 + 1) \times (40 + 5)$
 $= (30 \times 40) + (30 \times 5) + (1 \times 40) + (1 \times 5)$
 $= 1200 + 150 + 40 + 5 = \boxed{1395}$

1. 12×47

2. 11×37

3. 65×82

4. 12×38

5. 61×23

Distributive Property Multiplication (G) Answers

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1. 12×47
 $= (10 + 2) \times (40 + 7)$
 $= (10 \times 40) + (10 \times 7) + (2 \times 40) + (2 \times 7)$
 $= 400 + 70 + 80 + 14 = \boxed{564}$

2. 11×37
 $= (10 + 1) \times (30 + 7)$
 $= (10 \times 30) + (10 \times 7) + (1 \times 30) + (1 \times 7)$
 $= 300 + 70 + 30 + 7 = \boxed{407}$

3. 65×82
 $= (60 + 5) \times (80 + 2)$
 $= (60 \times 80) + (60 \times 2) + (5 \times 80) + (5 \times 2)$
 $= 4800 + 120 + 400 + 10 = \boxed{5330}$

4. 12×38
 $= (10 + 2) \times (30 + 8)$
 $= (10 \times 30) + (10 \times 8) + (2 \times 30) + (2 \times 8)$
 $= 300 + 80 + 60 + 16 = \boxed{456}$

5. 61×23
 $= (60 + 1) \times (20 + 3)$
 $= (60 \times 20) + (60 \times 3) + (1 \times 20) + (1 \times 3)$
 $= 1200 + 180 + 20 + 3 = \boxed{1403}$