# Distributive Property Multiplication (J)

Name: _____   Date: _____   Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. $17 \times 18$
$= (10 + 7) \times (10 + 8)$
$= (10 \times 10) + (10 \times 8) + (7 \times 10) + (7 \times 8)$
$= 100 + 80 + 70 + 56 = \boxed{306}$

1. $34 \times 21$

2. $71 \times 91$

3. $88 \times 92$

4. $92 \times 99$

5. $49 \times 71$

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1. $34 \times 21$
$= (30 + 4) \times (20 + 1)$
$= (30 \times 20) + (30 \times 1) + (4 \times 20) + (4 \times 1)$
$= 600 + 30 + 80 + 4 = \boxed{714}$

2. $71 \times 91$
$= (70 + 1) \times (90 + 1)$
$= (70 \times 90) + (70 \times 1) + (1 \times 90) + (1 \times 1)$
$= 6300 + 70 + 90 + 1 = \boxed{6461}$

3. $88 \times 92$
$= (80 + 8) \times (90 + 2)$
$= (80 \times 90) + (80 \times 2) + (8 \times 90) + (8 \times 2)$
$= 7200 + 160 + 720 + 16 = \boxed{8096}$

4. $92 \times 99$
$= (90 + 2) \times (90 + 9)$
$= (90 \times 90) + (90 \times 9) + (2 \times 90) + (2 \times 9)$
$= 8100 + 810 + 180 + 18 = \boxed{9108}$

5. $49 \times 71$
$= (40 + 9) \times (70 + 1)$
$= (40 \times 70) + (40 \times 1) + (9 \times 70) + (9 \times 1)$
$= 2800 + 40 + 630 + 9 = \boxed{3479}$