Distributive Property Multiplication (J)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 18477×8
$= (10000 + 8000 + 400 + 70 + 7) \times (8)$
$= (10000 \times 8) + (8000 \times 8) + (400 \times 8) + (70 \times 8) + (7 \times 8)$
$= 80000 + 64000 + 3200 + 560 + 56 = \boxed{147816}$

1. 17208×8

2. 46198×7

3. 44532×7

4. 74034×4

5. 15792×7

Distributive Property Multiplication (J) Answers

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$= 80000 + 64000 + 3200 + 560 + 56 = \boxed{147816}$

1. 17208×8
$= (10000 + 7000 + 200 + 0 + 8) \times (8)$
$= (10000 \times 8) + (7000 \times 8) + (200 \times 8) + (0 \times 8) + (8 \times 8)$
$= 80000 + 56000 + 1600 + 0 + 64 = \boxed{137664}$

2. 46198×7
$= (40000 + 6000 + 100 + 90 + 8) \times (7)$
$= (40000 \times 7) + (6000 \times 7) + (100 \times 7) + (90 \times 7) + (8 \times 7)$
$= 280000 + 42000 + 700 + 630 + 56 = \boxed{323386}$

3. 44532×7
$= (40000 + 4000 + 500 + 30 + 2) \times (7)$
$= (40000 \times 7) + (4000 \times 7) + (500 \times 7) + (30 \times 7) + (2 \times 7)$
$= 280000 + 28000 + 3500 + 210 + 14 = \boxed{311724}$

4. 74034×4
$= (70000 + 4000 + 0 + 30 + 4) \times (4)$
$= (70000 \times 4) + (4000 \times 4) + (0 \times 4) + (30 \times 4) + (4 \times 4)$
$= 280000 + 16000 + 0 + 120 + 16 = \boxed{296136}$

5. 15792×7
$= (10000 + 5000 + 700 + 90 + 2) \times (7)$
$= (10000 \times 7) + (5000 \times 7) + (700 \times 7) + (90 \times 7) + (2 \times 7)$
$= 70000 + 35000 + 4900 + 630 + 14 = \boxed{110544}$