

Distributive Property Multiplication (E)

Name: _____ Date: _____ Score: _____

Use the distributive property of multiplication to calculate each product.

Ex. 99513×6
 $= (90000 + 9000 + 500 + 10 + 3) \times (6)$
 $= (90000 \times 6) + (9000 \times 6) + (500 \times 6) + (10 \times 6) + (3 \times 6)$
 $= 540000 + 54000 + 3000 + 60 + 18 = \boxed{597078}$

1. 38632×4

2. 18570×6

3. 47195×3

4. 60673×5

5. 91883×9

Distributive Property Multiplication (E) Answers

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Date: _____

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Use the distributive property of multiplication to calculate each product.

Ex. 99513×6

$$\begin{aligned} &= (90000 + 9000 + 500 + 10 + 3) \times (6) \\ &= (90000 \times 6) + (9000 \times 6) + (500 \times 6) + (10 \times 6) + (3 \times 6) \\ &= 540000 + 54000 + 3000 + 60 + 18 = \boxed{597078} \end{aligned}$$

1. 38632×4

$$\begin{aligned} &= (30000 + 8000 + 600 + 30 + 2) \times (4) \\ &= (30000 \times 4) + (8000 \times 4) + (600 \times 4) + (30 \times 4) + (2 \times 4) \\ &= 120000 + 32000 + 2400 + 120 + 8 = \boxed{154528} \end{aligned}$$

2. 18570×6

$$\begin{aligned} &= (10000 + 8000 + 500 + 70 + 0) \times (6) \\ &= (10000 \times 6) + (8000 \times 6) + (500 \times 6) + (70 \times 6) + (0 \times 6) \\ &= 60000 + 48000 + 3000 + 420 + 0 = \boxed{111420} \end{aligned}$$

3. 47195×3

$$\begin{aligned} &= (40000 + 7000 + 100 + 90 + 5) \times (3) \\ &= (40000 \times 3) + (7000 \times 3) + (100 \times 3) + (90 \times 3) + (5 \times 3) \\ &= 120000 + 21000 + 300 + 270 + 15 = \boxed{141585} \end{aligned}$$

4. 60673×5

$$\begin{aligned} &= (60000 + 0 + 600 + 70 + 3) \times (5) \\ &= (60000 \times 5) + (0 \times 5) + (600 \times 5) + (70 \times 5) + (3 \times 5) \\ &= 300000 + 0 + 3000 + 350 + 15 = \boxed{303365} \end{aligned}$$

5. 91883×9

$$\begin{aligned} &= (90000 + 1000 + 800 + 80 + 3) \times (9) \\ &= (90000 \times 9) + (1000 \times 9) + (800 \times 9) + (80 \times 9) + (3 \times 9) \\ &= 810000 + 9000 + 7200 + 720 + 27 = \boxed{826947} \end{aligned}$$