

Concept CW_Grade-3_Multiplication and Division Properties of Multiplication

A) Fill in the missing numbers using the commutative property of addition.

1) $5 + 6 = \underline{\quad} + 5$

2) $10 + 9 = 9 + \underline{\quad}$

3) $3 + 2 = 2 + \underline{\quad}$

4) $7 + 1 = \underline{\quad} + 7$

5) $1 + 9 = \underline{\quad} + 1$

6) $4 + 8 = 8 + \underline{\quad}$

Associative Property

Find the missing number according to the associative property.

$$4 \times (3 \times 2) = (4 \times 3) \times \boxed{\quad}$$

$$6 \times (2 \times 5) = (6 \times 2) \times \boxed{\quad}$$

$$(20 \times 5) \times 11 = 20 \times (11 \times \boxed{\quad})$$

Find the product of these numbers.

$$7 \times (2 \times 1) = \boxed{\quad}$$

$$2 \times (7 \times 1) = \boxed{\quad}$$

$$10 \times (3 \times 4) = 10 \times \boxed{\quad} = \boxed{\quad}$$

$$(10 \times 3) \times 4 = \boxed{\quad} \times 4 = \boxed{\quad}$$

Distributive Property Multiplication (A)

Use the distributive property as shown to find each product.

$$\begin{aligned}
 965 \times 4 &= 900 \times 4 + 60 \times 4 + 5 \times 4 \\
 &= 3600 + 240 + 20 \\
 &= 3860
 \end{aligned}$$

$$\begin{aligned}
 141 \times 5 &= \underline{\quad} \times 5 + \underline{\quad} \times 5 + \underline{\quad} \times 5 \\
 &= 500 + 200 + 5 \\
 &= 705
 \end{aligned}$$

$$\begin{aligned}
 645 \times 6 &= \underline{\quad} \times 6 + \underline{\quad} \times 6 + \underline{\quad} \times 6 \\
 &= \underline{\quad} + \underline{\quad} + \underline{\quad} \\
 &= 3870
 \end{aligned}$$

$$\begin{aligned}
 433 \times 8 &= \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} \\
 &= \underline{\quad} + \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

$$\begin{aligned}
 833 \times 2 &= \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} \\
 &= \underline{\quad} + \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

$$\begin{aligned}
 196 \times 4 &= \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} \\
 &= \underline{\quad} + \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

$$\begin{aligned}
 967 \times 8 &= \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} \\
 &= \underline{\quad} + \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$