

Name _____

Algebra • Solve Multistep Problems Using Equations

The **Order of Operations** is a special set of rules which gives the order in which calculations are done in an expression. First, multiply and divide from left to right. Then, add and subtract from left to right.

Use the order of operations to find the value of n .

$$6 \times 26 + 3 \times 45 - 11 = n$$

Step 1 Circle the first multiplication expression in the equation.

$$(6 \times 26) + 3 \times 45 - 11 = n$$

Step 2 Multiply 6×26 .

$$\underline{156} + 3 \times 45 - 11 = n$$

Step 3 Circle the next multiplication expression in the equation.

$$156 + (3 \times 45) - 11 = n$$

Step 4 Multiply 3×45 .

$$156 + \underline{135} - 11 = n$$

Step 5 There are no more multiplication or division expressions. Circle the first addition expression in the equation.

$$(156 + 135) - 11 = n$$

Step 6 Add $156 + 135$.

$$\underline{291} - 11 = n$$

Step 7 Subtract $291 - 11$.

$$\underline{280} = n$$

Find the value of n .

1. $5 \times 43 + 9 \times 24 + 25 = n$

_____ = n

2. $7 \times 29 + 4 \times 46 - 56 = n$

_____ = n