Three ways to show the Distributive Property

1. Visually

2. Addition (expanded form)

\[(6 \cdot 100) + (6 \cdot 80) + (6 \cdot 7)\]

3. Multiplication (factor form)

\[6 \cdot (100 + 80 + 7)\]

Definition of "Equation"

Two mathematical expressions that are equal

Example: \[(6 \cdot 2) = (3 \cdot 4)\]

Look at the expressions from above

\[6 \cdot (100 + 80 + 7)\] and \[(6 \cdot 100) + (6 \cdot 80) + (6 \cdot 7)\]

Can these expressions be written as an equation?

Answer: Yes \[6 \cdot (100 + 80 + 7) = (6 \cdot 100) + (6 \cdot 80) + (6 \cdot 7)\]

Remember when doing the Distributive Property, think about:

1. What number is being distributed AND 2. Where is it being distributed to