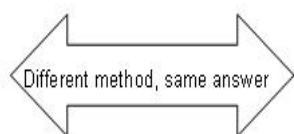


# Why 2 Negatives Equals a Positive

We know that there if we do a question in different ways, we still get the same answer

Using order of operation

$$\begin{aligned}5 \times (3 + 3) \\= 5 \times 6 \\= 30\end{aligned}$$



Using distributive property

$$\begin{aligned}5 \times (3 + 3) \\= (5 \times 3) + (5 \times 3) \\= 15 + 15 \\= 30\end{aligned}$$

Now, let's add some integers

$$\begin{aligned}-5 \times [(+3) + (-3)] \\= -5 \times 0 \\= 0\end{aligned}$$

Zero pair

$$\begin{aligned}-5 \times [(+3) + (-3)] \\= -15 + \underline{\hspace{2cm}}\end{aligned}$$

**What sign should  $-5 \times -3$  be? We know that the answer is 0... So it needs to form a zero pair with  $-15$ .**

$$\begin{aligned}= -15 + (+15) \\= 0\end{aligned}$$