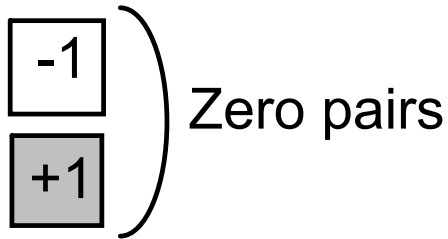


Adding integers with tiles

Review

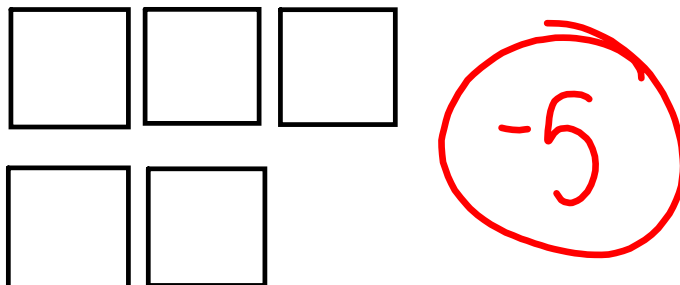


- Opposite integers give us 0
 - > This also means nothing, so they cancel each other out
- When adding, you cancel out as many as you need to, and count what is left over.

What if you were adding two negatives or two positives?

Would any cancel out?:

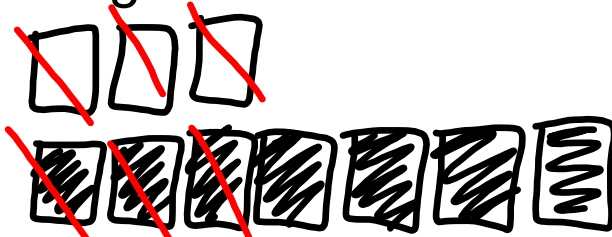
$$(-3) + (-2)$$



Let's do these one together

1. $(-3) + (+7)$

$+4$



2. $(-5) + (-1)$

-6



3. $(+2) + (+6)$

$+8$



Try these on your own (model with tiles):

1. $(-1) + (-5)$

-6



2. $(-4) + (+9)$

$+5$



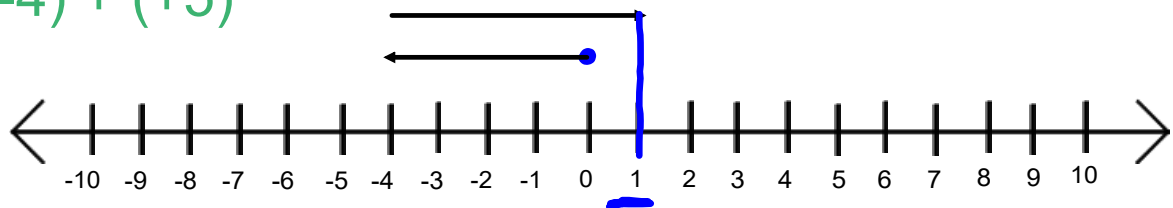
3. $(+2) + (-8)$

We can also model with a number line:

Steps:

1. Always start at 0
2. Draw an arrow from 0 to your first number
3. Then draw an arrow from that number the amount of spaces of the second number

$$(-4) + (+5)$$



$+1$

We know how to add without modelling

1) Both Numbers are Positive

Rule: Add the numbers normally and keep the positive sign.

2) Both Numbers are Negative

Rule: Add the absolute values and keep the negative sign.

3) One Positive, One Negative

Rule: Subtract the smaller absolute value from the larger absolute value and take the sign of the number with the larger absolute value.

$$\begin{array}{r} (+7) + (-13) \\ 13 - 7 \\ -6 \end{array} \quad \rightarrow \quad \begin{array}{l} \text{larger} \\ \text{absolute value} \\ \text{USE THIS SIGN} \end{array}$$

Let's do these ones together! WRITE THEM DOWN ON YOUR PAPER SO YOU CAN USE THEM AS EXAMPLES!

1. Model using tiles: $(+4) + (-7) =$

2. Model using a number line: $(+7) + (-4) =$

3. Add without modelling: $(-3) + (+9) =$

Practice addition on your own!

Ask Miss Buggie any questions you
have :)

page 65 #3, 4, 5, 6(a), 7, 8

 NOTE: This is NOT for homework