Adding Integers

ding Integers with LIKE Signs

+ plus +	23 + 14 = 37	positive answer
- plus -	- 12 + (- 31) = - 43	negative answer

You Try!

-15 + (-20) = -35

-56 + 12 = -44

Adding Integers with UNLIKE Signs

To add two integers with different signs follow these steps:

-12 + 42 = ?

1) Ignore the signs and find the difference (subtract).

42-12 = 30

2) Determine whether the answer is + or – by looking at the sign of the integer with the greater absolute value.

42 has the greatest absolute value and is positive in the original problem.
So the answer is **positive 30**.

You Try!

-15 + 20 = 5

- 25 + 10 = -15

56 + (- 12) = 44

CHALLENGE:

$-40 + 3^2 \cdot 5 + (-12)$

$-40+9 \cdot 5+(-12)$

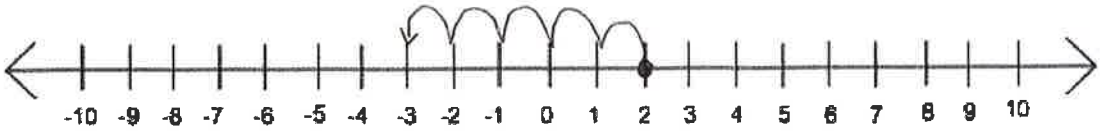
$-40+45+(-12) = 5+(-12) = \boxed{-7}$

Subtracting Integers

Show 2 - 5 on the number line. $= -3$

$2-5=-3$

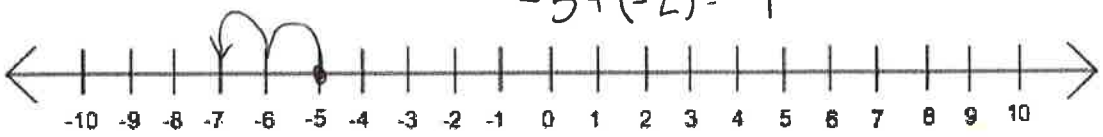
$2+(-5)=-3$



Show – 5 – 2 on the number line.

$-5-2=-7$

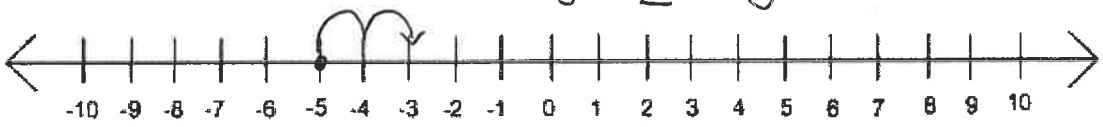
$-5+(-2)=-7$



Show – 5 – (- 2) on the number line.

$-5-(-2)=-3$

$-5+2=-3$



To subtract an integer, add the opposite.

first # stays the same. $\longrightarrow 2 - 5 = 2 + (-5) = -3$

$2 + (+5) = 2 + 5 = 7$

Try without the number line.

12 - 56 =

$5+-10=-5$

- 5 - 10 =

$5+(+10)=15$

-15 - (-20) =