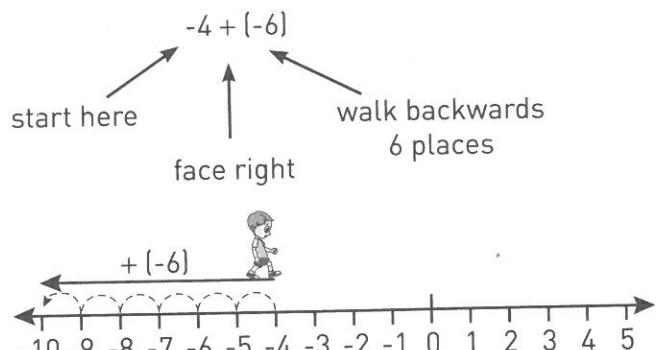


2.6 Adding and subtracting negative integers

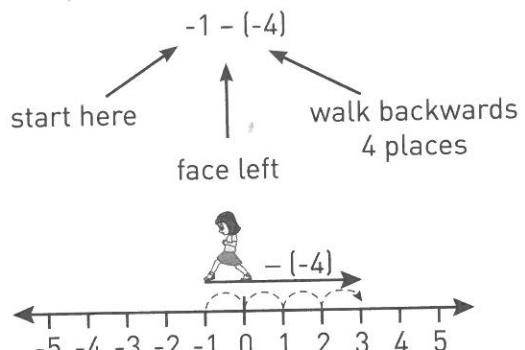
Adding negative integers



Adding a negative integer is the same as subtracting.

$-4 + \boxed{-6}$ is the same as $-4 - 6$.

Subtracting negative integers

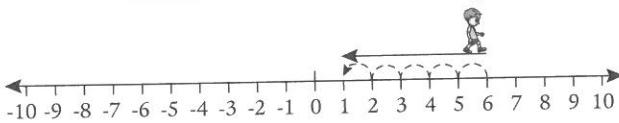


Subtracting a negative integer is the same as adding.

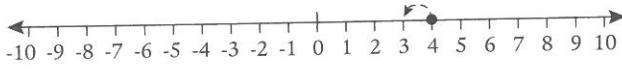
$-1 \circled{-} 4$ is the same as $-1 + 4$.

- 1** For each addition below, follow the instructions to determine the answer.

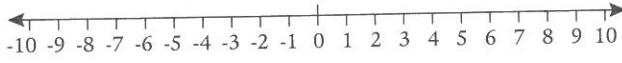
- a $6 + -5$
- Start at 6.
 - Face right (towards the positive end of the number line)
 - $= \boxed{\quad}$
 - Walk backwards 5 places.



- b $4 + -9$
- Start at 4.
 - Face right (towards the positive end of the number line).
 - $= \boxed{\quad}$
 - Walk backwards 9 places.

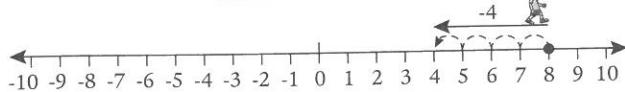


- c $-2 + -7$
- Start at -2.
 - Face right (towards the positive end of the number line).
 - $= \boxed{\quad}$
 - Walk backwards 7 places.

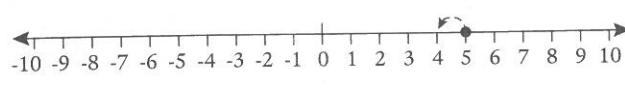


- 2** Calculate by facing right and then walking backwards.

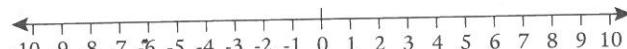
a $8 + -4 = \boxed{\quad}$



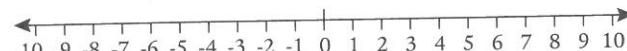
b $5 + -7 = \boxed{\quad}$



c $-6 + -2 = \boxed{\quad}$



d $-3 + -5 = \boxed{\quad}$



- 3** Calculate:

Tip Adding a negative integer is the same as subtracting a positive integer (e.g. $5 + -1$ is the same as $5 - 1$).

a $7 + -4$

$= 7 - 4$

$= \boxed{\quad}$

b $3 + -5$

$= \underline{\quad} - \underline{\quad}$

$= \boxed{\quad}$

c $-1 + -9$

$= \underline{\quad} - \underline{\quad}$

$= \boxed{\quad}$

d $-8 + -7$

$= \underline{\quad} - \underline{\quad}$

$= \boxed{\quad}$

- 4** Calculate:

a $9 + -15$

$= 9 - 15$

$= \boxed{\quad}$

b $-16 + -4$

$= \underline{\quad} - \underline{\quad}$

$= \boxed{\quad}$

c $-15 + -21$

$= \underline{\quad} - \underline{\quad}$

$= \boxed{\quad}$

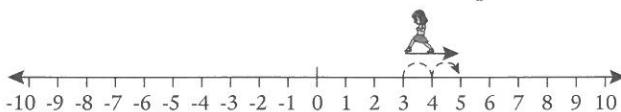
d $7 + -20$

$= \underline{\quad} - \underline{\quad}$

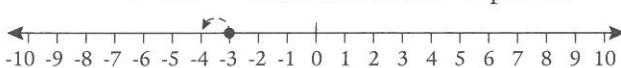
$= \boxed{\quad}$

- 5** For each subtraction below, follow the instructions to determine the answer.

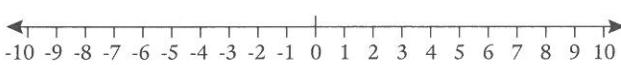
- a $3 - -2$
- Start at 3.
 - Face left (towards the negative end of the number line).
 - Walk backwards 2 places.



- b $-4 - -11$
- Start at -4.
 - Face left (towards the negative end of the number line).
 - Walk backwards 11 places.



- c $-2 - -5$
- Start at -2.
 - Face left (towards the negative end of the number line).
 - Walk backwards 5 places.



- 6** Use the number lines to calculate the answer.

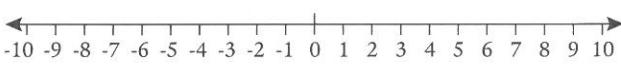
a $7 - -3 =$



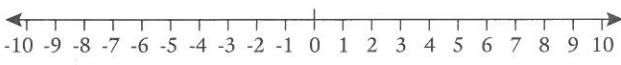
b $1 - -8 =$



c $-3 - -6 =$



d $-5 - -5 =$



- 7** Answer the following.

a $10 - -6$

$$= 10 + 6$$

$$= \boxed{}$$

b $-2 - -15$

$$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$= \boxed{}$$

c $-8 - -13$

$$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \\ = \boxed{}$$

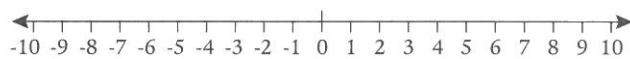
d $-25 - -10$

$$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \\ = \boxed{}$$

- 8** Use the number line to evaluate the following.

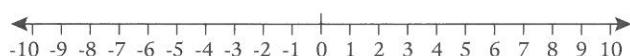
a $6 + -15 - -3$

$$= \underline{\hspace{2cm}} \\ = \boxed{}$$



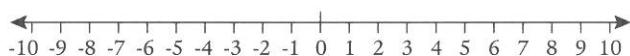
b $-5 - -6 + -2$

$$= \underline{\hspace{2cm}} \\ = \boxed{}$$



c $-1 + -9 - -16$

$$= \underline{\hspace{2cm}} \\ = \boxed{}$$



NAPLAN-ready

Shade the box beneath the correct answer.

Jin is standing on a number line at -5, facing right. She walks forwards to +2, then turns and walks to -3. Which number sentence describes her movements?



$-5 + 2 - 3$

$-5 + 7 - 10$

$-5 + 7 - 5$

$-5 - 7 + 9$



Count the jumps needed to arrive at the stated numbers. Note the direction in which Jin moves each time.