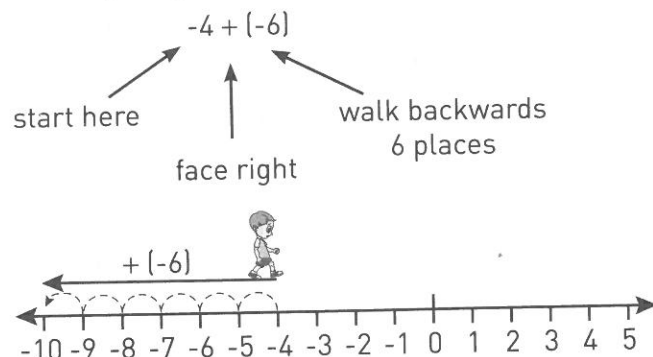


2.6

Adding and subtracting negative integers

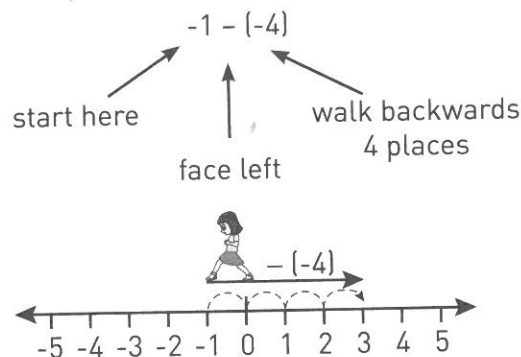
Adding negative integers



Adding a negative integer is the same as subtracting.

$-4 + [-6]$ is the same as $-4 - 6$.

Subtracting negative integers

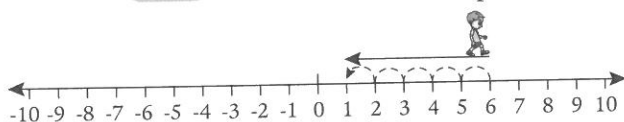


Subtracting a negative integer is the same as adding.

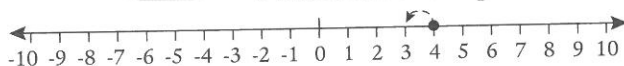
$-1 - [-4]$ is the same as $-1 + 4$.

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

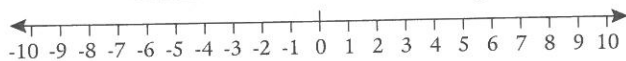
- a $6 + -5$
- Start at 6.
 - Face right (towards the positive end of the number line)
 - Walk backwards 5 places.
- =



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

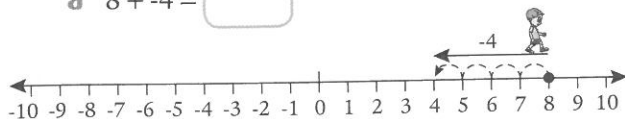


- c $-2 + -7$
- Start at -2.
 - Face right (towards the positive end of the number line).
 - Walk backwards 7 places.
- =

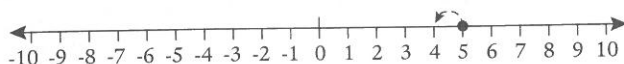


2 Calculate by facing right and then walking backwards.

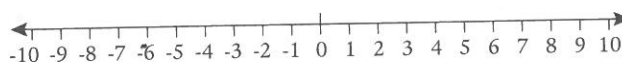
a $8 + -4 =$



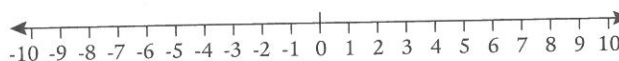
b $5 + -7 =$



c $-6 + -2 =$



d $-3 + -5 =$



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 $7 + -4$

= $7 - 4$

=

c $-1 + -9$

= -

=

b $3 + -5$

= -

=

d $-8 + -7$

= -

=

4 Calculate:

a $9 + -15$

= $9 - 15$

=

c $-15 + -21$

= -

=

b $-16 + -4$

= -

=

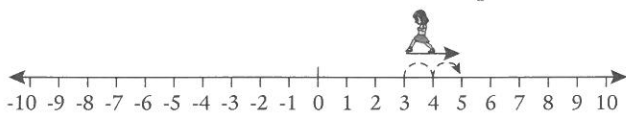
d $7 + -20$

= -

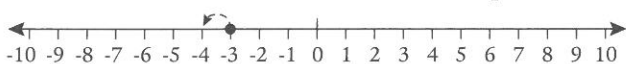
=

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

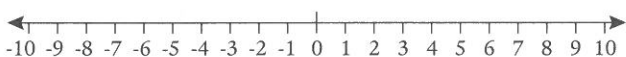
- a** $3 - 2$
- Start at 3.
 - Face left (towards the negative end of the number line).
 - Walk backwards 2 places.



- 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.

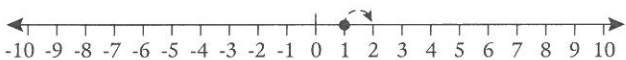


6 Use the number lines to calculate the answer.

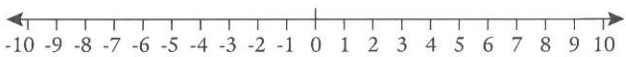
a $7 - 3 = \boxed{}$



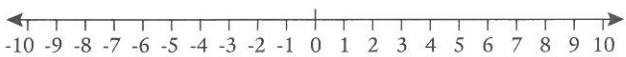
b $1 - 8 = \boxed{}$



c $-3 - 6 = \boxed{}$



d $-5 - 5 = \boxed{}$



7 Answer the following.

a $10 - 6$

$= 10 + 6$

$= \boxed{}$

b $-2 - 15$

$= \boxed{} + \boxed{}$

$= \boxed{}$

c $-8 - 13$

$= \boxed{} + \boxed{}$

$= \boxed{}$

d $-25 - 10$

$= \boxed{} + \boxed{}$

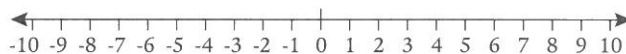
$= \boxed{}$

8 Use the number line to evaluate the following.

a $6 + 15 - 3$

$= \boxed{}$

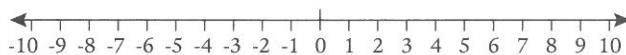
$= \boxed{}$



b $-5 - 6 + 2$

$= \boxed{}$

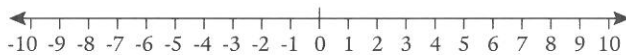
$= \boxed{}$



c $-1 + 9 - 16$

$= \boxed{}$

$= \boxed{}$



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?



$-5 + 2 - 3$

☐

$-5 + 7 - 10$

☐

$-5 + 7 - 5$

☐

$-5 - 7 + 9$

☐

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