Negative numbers

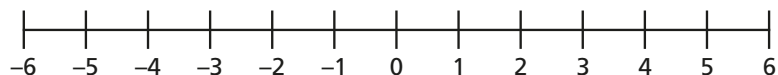**1** Complete the number line.

|—|—|—|—|—|—|—|—|—|—|—|
−1   1 2 3 4

2 The table shows the temperatures in four cities in the world.

Leeds	Barcelona	Chicago	Sydney
−5°C	7°C	−8°C	16°C

a) How many degrees colder is it in Barcelona than Sydney?

b) How many degrees warmer is it in Leeds than Chicago?

c) How many degrees colder is it in Leeds than Sydney?

d) What is the difference between the temperature in Barcelona and Chicago?

e) The temperature in Leeds increases by 4°C.
What is the new temperature?

f) The temperature in Chicago decreases by 3°C.
What is the new temperature?

3 Complete the sentences. Use the number line to help you.

−6 −5 −4 −3 −2 −1 0 1 2 3 4 5 6

a) 5 more than −3 is ☐

b) 4 less than 1 is ☐

c) 4 more than −4 is ☐

d) 3 less than −1 is ☐

4 A ship sits in the sea.

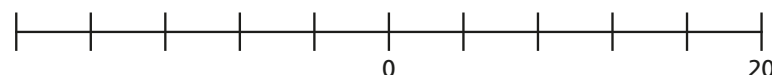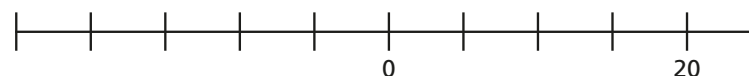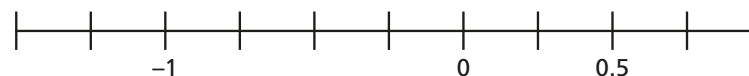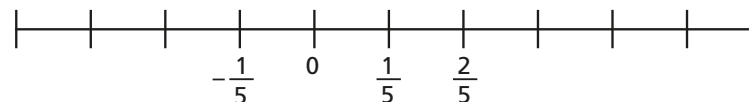The base of the ship is 5 m below sea level.

The top of the ship is 11 m above sea level.

How tall is the ship?

5 Complete the number sentences.

a) $-3 + 5 =$ ☐

b) $1 - 4 =$ ☐

c) $-4 + 4 =$ ☐

d) $-1 - 3 =$ ☐

e) $3 - 5 =$ ☐

f) $-1 - 4 =$ ☐

g) $-4 - 4 =$ ☐

h) $-1 + 3 =$ ☐

6 Complete the number lines.

$-\dfrac{1}{5}$ 0 $\dfrac{1}{5}$ $\dfrac{2}{5}$
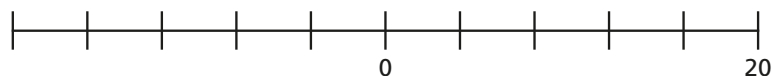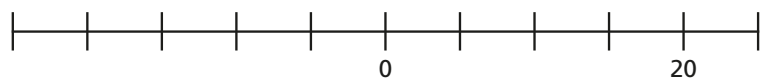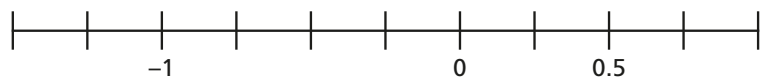
−1   0 0.5

0   20

0   20

4 A ship sits in the sea.

The base of the ship is 5 m below sea level.

The top of the ship is 11 m above sea level.

How tall is the ship?

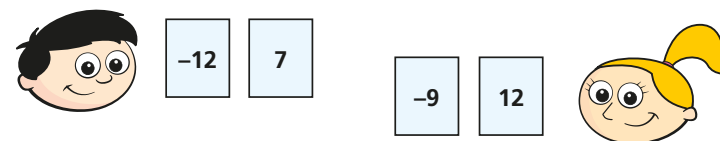**5** Complete the number sentences.

a) $-3 + 5 =$ ☐   e) $3 - 5 =$ ☐

b) $1 - 4 =$ ☐   f) $-1 - 4 =$ ☐

c) $-4 + 4 =$ ☐   g) $-4 - 4 =$ ☐

d) $-1 - 3 =$ ☐   h) $-1 + 3 =$ ☐

6 Complete the number lines.

$-\dfrac{1}{5}$ 0 $\dfrac{1}{5}$ $\dfrac{2}{5}$

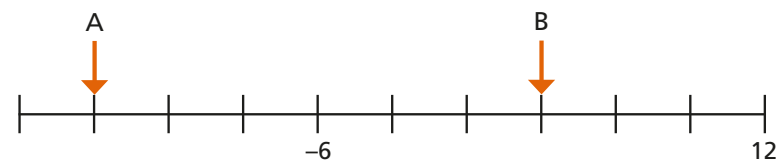-1 0 0.5

0 20

0 20

7 Dexter and Eva are playing a game.

They each choose 2 cards and add up their total points.

The winner is the person with the highest total.

-12 7 -9 12

Who has won the game and by how many points?

8 Work out the values of A and B.

A   B

-6 12

Complete the calculations.

$A + B =$ ☐ $A - B =$ ☐