

Subtract directed numbers

1 What is the total value when one counter is removed from each set?
Complete the calculations.

a)

$$-4 - (-1) = \square$$

b)

$$-7 - (-1) = \square$$

c)

$$-10 - (-1) = \square$$

Discuss what happens with a partner.

2 Complete the calculations.
Use counters to help you.

a) $-5 - (-1) = \square$

b) $-5 - (-2) = \square$

c) $-5 - (-3) = \square$

d) $-5 - (-5) = \square$

3 What is the total value of the set of counters?

total = \square

4 What is the total value of each set of counters?

\square \square \square

Tick the set of counters that will help you to work out the answer to $3 - (-2)$

Explain your choice.

Complete the calculation. $3 - (-2) = \square$

5 Complete the calculations.

$$3 - (-1) = \square$$

$$3 - (-3) = \square$$

$$3 - (-4) = \square$$

Talk about your answers with a partner.



6 Complete the sequence of subtractions.

$4 - 4 = \square$

$4 - (-1) = \square$

$4 - 3 = \square$

$4 - (-2) = \square$

$4 - 2 = \square$

$4 - (-3) = \square$

$4 - 1 = \square$

$4 - (-4) = \square$

$4 - 0 = \square$

What do you notice?

7 Brett says $-5 - 4 = 9$

What mistake do you think Brett has made?

8 Work out the calculations.

a) $0 - 7 = \square$

f) $0 - (-7) = \square$

b) $2 - 7 = \square$

g) $-2 - 7 = \square$

c) $2 - (-7) = \square$

h) $-2 - (-7) = \square$

d) $3 - (-5) = \square$

i) $-10 - 3 = \square$

e) $\square = -7 - (-2)$

j) $-10 - (-3) = \square$



9 Work out the missing numbers.

a) $8 - \square = -11$

e) $11 = 8 - \square$

b) $-8 - \square = -11$

f) $11 = -8 - \square$

c) $8 - \square = 5$

g) $-5 = 8 - \square$

d) $-8 - \square = 5$

h) $-5 = -8 - \square$

10 Work out the missing numbers.

a) $-4 - (-13) = 7 - \square$

c) $\square - 4 = -7 - 13$

b) $-13 - 4 = \square - (-7)$

d) $-7 - \square = -13 - (-4)$

11 Find pairs of numbers to complete the statements.

a) $8 - (-9) = \square - \square$

b) $\square - \square = -8 - (-9)$

c) $-9 - \square = \square - (-8)$

How many different solutions can you find?

12 Class 7A recorded the temperature during winter every day.

Day	Temperature (°C)
Monday	-6
Tuesday	-3
Wednesday	1
Thursday	-4
Friday	2
Saturday	-2

What is the range of the temperatures?

