

# 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?

