

Negative numbers

Use negative numbers and calculate intervals across 0



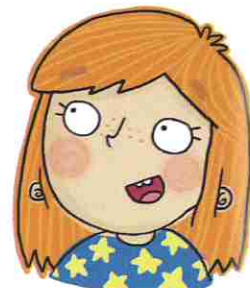
Challenge

1

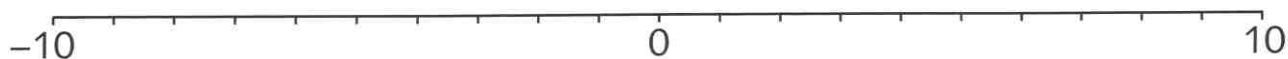
- 1 Count back 10 times from these negative numbers. Write the numbers in your book.

a -5 b -17 c -24
d -37 e -49 f -60

-9, -10, -11,
-12, -13,
-14 ...



- 2 Use the number line to work out the calculations.



a $7 - 9$ b $3 - 8$ c $6 - 10$ d $1 - 5$ e $10 - 13$
f $4 - 12$ g $8 - 11$ h $5 - 14$ i $2 - 7$ j $9 - 14$

Challenge

2

- 1 Work out these calculations. Use jottings to support your working out.

a $13 - 20$ b $17 - 28$ c $21 - 30$ d $25 - 42$
e $28 - 53$ f $30 - 50$ g $37 - 55$ h $41 - 67$

- 2 Work out these calculation chains. Use jottings to support your working out.

a $5 - 8 - 3 + 2$

b $2 - 11 + 4 - 3$

c $0 - 3 + 6 - 8$

d $7 - 12 + 8 - 4$

e $3 - 10 + 7 - 5$

f $6 - 13 + 4 - 6$

g $4 - 9 + 10 - 7$

h $1 - 14 - 18 + 9$

3 What is the difference between each pair of numbers?

a (-8) (15) b (-11) (9) c (-23) (18) d (-30) (25)
 e (-36) (27) f (-29) (35) g (-41) (41) h (-54) (47)

Example

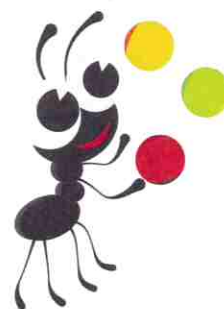
4 Explain how you worked out the difference in Question 3. Why does your method work?

1 Use a negative number and a positive number to complete each of these calculations.

a	+	= 7	b	+	= 12	c	+	= 15
d	+	= 21	e	+	= 28	f	+	= 36
g	+	= 40	h	+	= 53	i	+	= 24

2 Use two negative numbers to complete each of these calculations.

a	+	= -7	b	+	= -12
c	+	= -15	d	+	= -21
e	+	= -28	f	+	= -36
g	+	= -40	h	+	= -53



3 Use two positive numbers to complete each of these calculations.

a	-	= -7	b	-	= -12
c	-	= -15	d	-	= -21
e	-	= -28	f	-	= -36
g	-	= -40	h	-	= -53



4 Find a partner. Work together to compare your calculations for Questions 1, 2 and 3. Although you probably used different numbers in your calculations, did you still both get the same answers?

