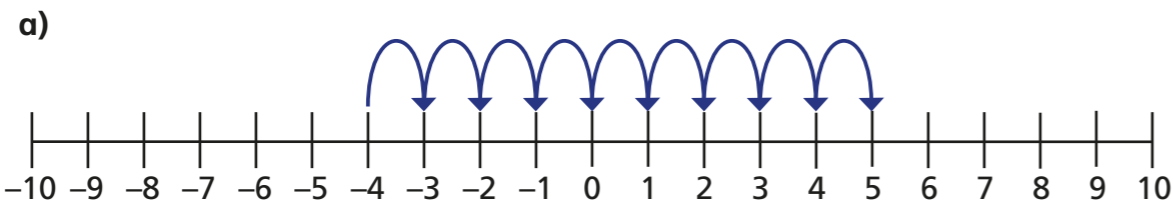
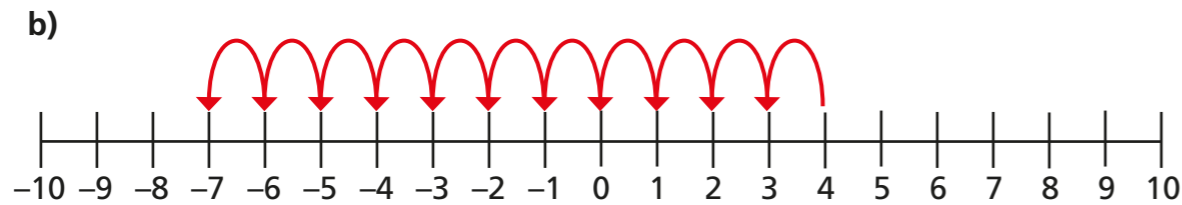


Perform calculations that cross zero

1 Complete the calculations represented on the number lines.

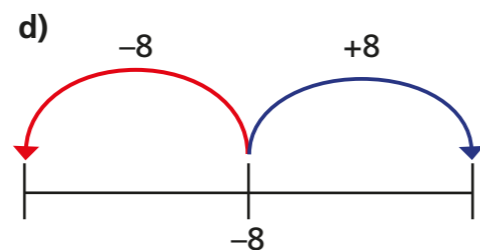
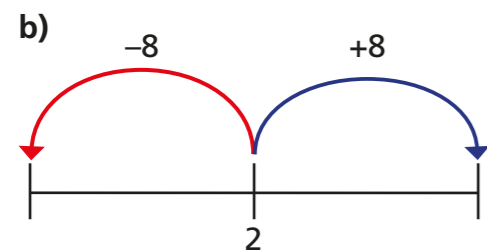
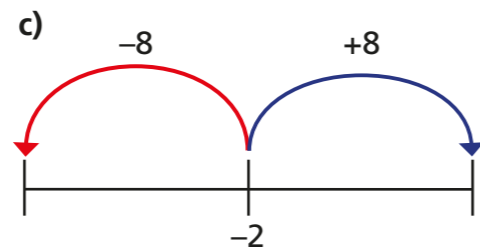
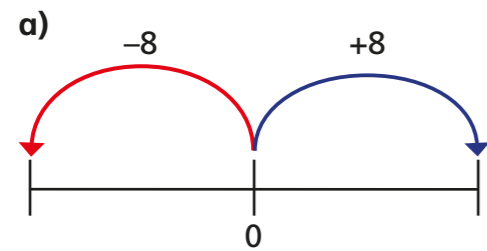


$$-4 + \boxed{} = 5$$

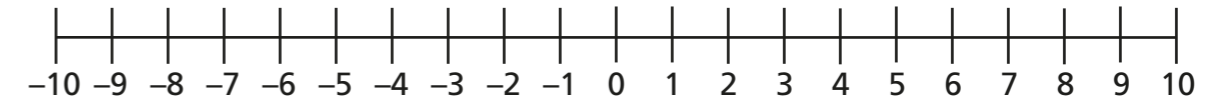


$$4 - \boxed{} = \boxed{}$$

2 Fill in the missing numbers on the number lines.



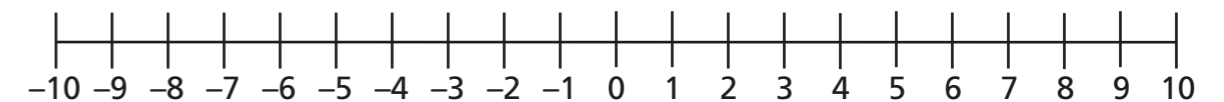
3 Tommy is finding 7 less than 3



Show how you can use the number line to get the answer.

Discuss your method with a partner.

4 Complete the calculations.



a) $7 - 5 = \boxed{}$

e) $-3 - 5 = \boxed{}$

b) $5 - 7 = \boxed{}$

f) $-8 + 2 = \boxed{}$

c) $-5 + 7 = \boxed{}$

g) $-2 + 10 = \boxed{}$

d) $-7 + 5 = \boxed{}$

h) $\boxed{} = -3 + 12$

5 Complete the number sentences.

a) $5 - 9 = \boxed{}$

$-5 - 9 = \boxed{}$

$-5 + 9 = \boxed{}$

b) $1 - \boxed{} = -7$

$-1 - \boxed{} = -7$

$-1 + \boxed{} = 7$

c) $-28 = \boxed{} - 16$

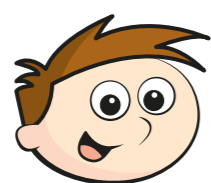
$-28 = \boxed{} + 16$

$28 = \boxed{} - 16$

d) $-4 + 34 - 43 = \boxed{}$ $102 = -9 + \boxed{}$

$\boxed{} = -59 - 7 + 46$

- 6 Teddy is working out the answer to 2 less than negative 3



The answer is negative 1

What mistake has Teddy made?

What is the correct answer?

- 7 The table shows the temperature in five cities at 12 midnight.

City	Temperature
Moscow	-15 °C
New York	-6 °C
London	3 °C
Paris	8 °C
Dubai	22 °C

- a) The temperature in Moscow rises by 8 °C by 12 noon.

What is the temperature at 12 noon?

°C

- b) The temperature in London drops by 7 °C.

What is the new temperature?

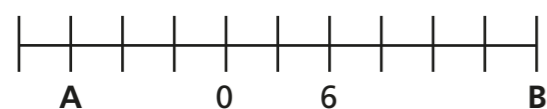
°C

- c) The temperature in New York at 12 noon is 6 °C.

By how many °C has the temperature risen?

°C

- 8 Find the difference between A and B.



- 9 Find the missing terms in the linear sequences.

a) -10, -7, -4, , ,

b) 9, 2, , ,

c) -19, -24, , , , -44

d) -2, , , -0.5, , ,

- 10 Simplify the expressions by collecting like terms.

a) $3a - 7a \equiv$

d) $-7e - 13e - 2e \equiv$

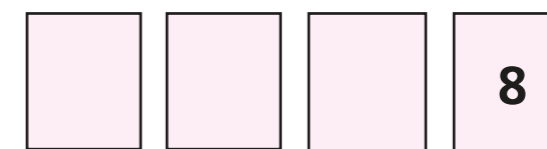
b) $4b - 5b - 5b \equiv$

e) $8g - g + 9h - 8g - 9h \equiv$

c) $0.5d - d \equiv$

f) $-2.3k + 3k \equiv$

- 11 Four numbers are put in ascending order.



- The difference between the largest and smallest number is 11
- The total of the 4 cards is 10

a) Find the three missing numbers. , ,

- b) How many different solutions can you find?