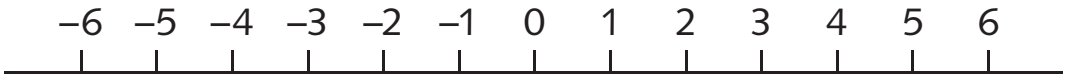
Negative Numbers

PS Problem-solving questions

Challenge 1



1 Use the number line.

a) Start at 3, count back 5, write the number you reach. _____

b) Start at 2, count back 6, write the number you reach. _____

c) Start at 5, count back 7, write the number you reach. _____

d) Start at 4, count back 9, write the number you reach. _____

4 marks

2 Calculate by counting backwards:

a) 4 – 6 = _____ **b)** 3 – 7 = _____ **c)** 5 – 6 = _____

3 marks

PS **3** Jake wants to buy a t-shirt for £7. He has £3.
He borrows the rest from his dad.
How much does Jake owe his dad? _____

1 mark

4 Start at –2, count back 3, write the number you reach. _____

1 mark

Marks..... /9

Challenge 2

1 **a)** Start at 4, count back 8, write the number you reach. _____

b) Start at 2, count back 9, write the number you reach. _____

c) Start at 10, count back 12, write the number you reach. _____

d) Start at 1, count back 10, write the number you reach. _____

4 marks

2 Calculate by counting backwards:

a) 2 – 7 = _____ **b)** 12 – 17 = _____ **c)** 15 – 16 = _____

3 marks

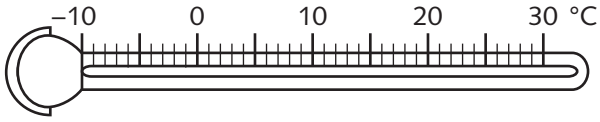
3 Calculate by counting backwards:

a) –2 – 7 = _____ **b)** –5 – 12 = _____ **c)** –10 – 8 = _____

3 marks

Negative Numbers

PS **4** Look at the thermometer.



Write the temperature after these changes.

a) The temperature is 12°C and falls by 14°C. _____

b) The temperature is –4°C and falls by 5°C. _____

c) The temperature is –3°C and rises by 7°C. _____

3 marks

Marks..... /13

Challenge 3

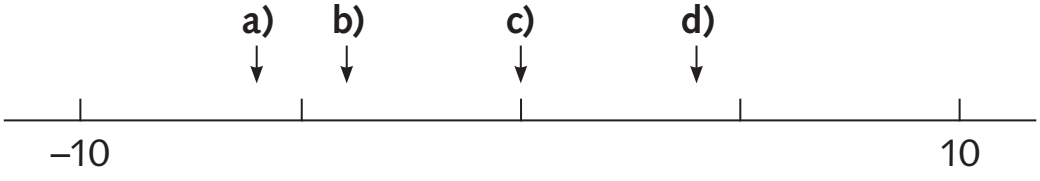
1 Arrange these numbers in order, starting with the largest.

–6 **5** **–1** **–4** **3**

largest ☐ ☐ ☐ ☐ ☐ **smallest**

1 mark

2 This number line runs from –10 to 10. Four arrows point to whole numbers. Write the numbers the arrows point to.



a) _____ **b)** _____ **c)** _____ **d)** _____

4 marks

3 Calculate:

a) 3 – 12 = _____ **b)** 5 – 20 = _____ **c)** 12 – 20 = _____

d) –5 – 9 = _____ **e)** –12 – 12 = _____ **f)** –8 + 4 = _____

6 marks

Marks..... /11

Total marks ..... /33 How am I doing?