

Think "little birdie 'technique'
 • First sign tells you where you should walk (+ = forwards or - = backwards)
 • Second sign tells you how to walk (- = backwards + = forwards)

Revision sheet on integers

Question 1

In a kitchen, some food is stored at -18°C in a freezer and some at 4°C in the fridge. A roast is cooking in the oven at a temperature of 180°C .



Before answering each of the following questions, draw a number line to show the positions of the temperatures.

- a) What is the difference in temperature between the food stored in the freezer and the food stored in the fridge?

(Hint: Difference = largest value - smallest value)

$$4 - \cancel{-18} = 22^{\circ}\text{C difference}$$

↓
face
walk
backwards
end

- b) What is the difference in temperature between the food stored in the fridge and the roast cooking in the oven?

$$180 - 4 = 176^{\circ}\text{C difference}$$

- c) What is the difference in temperature between the food stored in the freezer and the roast cooking in the oven?

$$180 - \cancel{-18} = 196^{\circ}\text{C difference}$$

Question 2

The following is a homework sheet done by a student in Year 7. Correct her work for her and give her a mark out of six. Make sure you include the correct answer if her answer is wrong.

a. $-3 + -7 = -10$	<input checked="" type="checkbox"/>
b. $-4 - -10 = -6$	<input type="checkbox"/>
c. $-7 - 8 = 15$	<input checked="" type="checkbox"/>
d. $70 + (-180) = 110$	<input type="checkbox"/>
e. $42 + 7 - -11 = 60$	<input checked="" type="checkbox"/>

$\xrightarrow{\quad}$ walk backwards
 $\xleftarrow{\quad}$ walk forwards

Question 3

Complete the following (use your number line):

a) $2 - 3 = \underline{\quad 1 \quad}$

b) $-12 + 11 = \underline{\quad -1 \quad}$

c) $-5 - 2 = \underline{\quad -7 \quad}$

d) $-8 - 3 = \underline{\quad -11 \quad}$

Question 4

Susan had \$48 in the bank. She wants to buy a pair of shoes for \$65. How much extra does she need?

(+14) walk forward i.e. away from 0

$$48 \overset{+14}{\cancel{+}} 65 = -17$$

first
-
end

Susan needs an extra \$17.