

Add and Subtract positive and negative numbers

1. Calculate:

(a) $-5 + 8$

(b) $-2 - 11$

(c) $-9 + (-4)$

(d) $18 - (-3)$

(e) $-21 - (-5)$

(f) $8 + (-6)$

[6]

2. The temperature in Aberdeen one morning is -2°C . During the day the temperature rises by 9 degrees.

What is the temperature now?

[1]

3. Yesterday Frank's bank balance was £215. Today it is $-\text{£}47$.

How much has Frank spent?

[1]

4. In the triangular number table shown opposite, Line 2 is formed by adding the 2 cells directly below in Line 1. ($-2 + 5 = 3$)
Line 3 is formed by adding the 2 cells directly below in Line 2. ($3 + (-4) = -1$)

- 1		Line 3	
3	- 4	Line 2	
- 2	5	- 9	Line 1

Using the same rules as above copy and complete the tables below.

(a)

-8	2	-5

[3]

(b)

0			
		-2	2
	-7		-3

[6]

5. Freezers operate at different temperatures depending on their star ratings. A 1 star freezer operates at -6°C and a 2 star at -12°C .

What is the difference in the operating temperatures of these two freezers?

[1]

[22 marks]