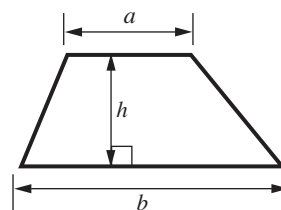
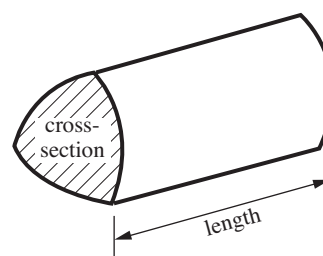


Formulae Sheet

Area of trapezium = $\frac{1}{2} (a + b)h$



Volume of prism = (area of cross-section) \times length



PLEASE DO NOT WRITE ON THIS PAGE

- 1 (a) Write down all the factors of 21.

(a)..... [2]

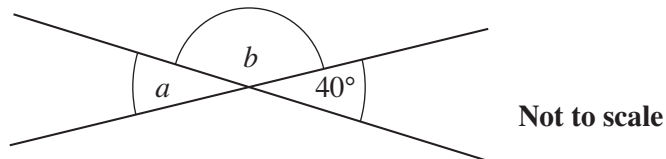
- (b) Complete this sentence.

The common factors of 21 and 28 are 1 and

[1]

3

2



The diagram shows two straight lines.

- (a) Complete.

$a = 40^\circ$ because

..... [1]

- (b) Work out angle b .

Give a reason for your answer.

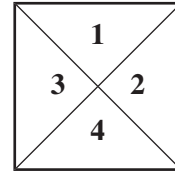
$b = \dots\dots\dots^\circ$ because

..... [2]

3

- 3 Randeep makes a spinner numbered from 1 to 4.

To test the spinner, he spins it 200 times.
Here are his results.



Number	1	2	3	4
Frequency	49	77	22	52

- (a) Is the spinner fair?
Explain your answer.

..... because
..... [1]

- (b) Use the table to estimate the probability of getting

(i) 2,

(b)(i) [1]

(ii) an odd number.

(ii) [2]

4	
---	--

- 4 Work out.

$$481 \times 32$$

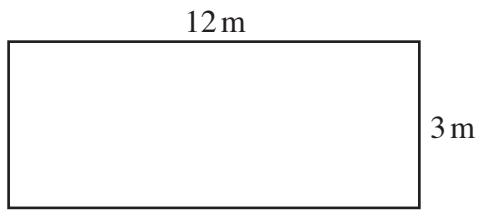
You must show your working.

..... [3]

3	
---	--

5

5 Work out the area of this rectangle.



Not to scale

..... m² [2]

2	

- 6 (a) Kelly takes part in the long jump at an athletics meeting.

She takes four jumps.

Here are the lengths of her jumps, in metres.

6.58 7.4 7.25 7.02

Write these lengths in order, starting with the **longest**.

.....
longest

[2]

- (b) In the javelin competition Steve's longest throw was 75.21 m.
The winning throw was 83.62 m.

How much longer was the winning throw than Steve's throw?

(b) m [2]

- (c) Carl takes part in the shot put competition.
The shot weighs 16 pounds.

Roughly, what is 16 pounds in kilograms?
Circle the correct answer.

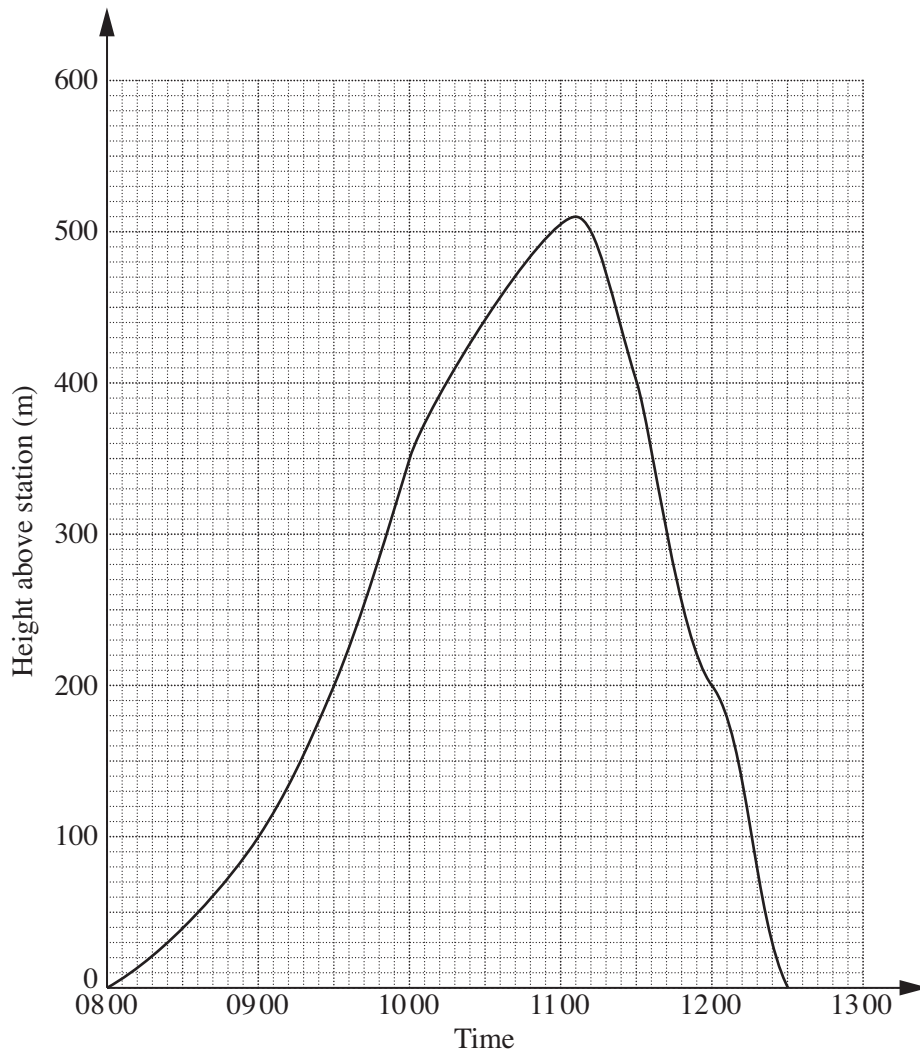
1.6 kg 4 kg 7 kg 10 kg 35 kg 160 kg

[1]

5	
---	--

- 7 Fraser climbed to the top of Allalin mountain from the railway station.

The graph shows his height above the station during the climb.



- (a) At what height above the station was he at 0900?

(a) m [1]

- (b) At what **two** times was he 200 m above the station?

(b)
 [2]

- (c) The railway station is 3500 m above sea level.

What was Fraser's greatest height **above sea level**?

(c) m [2]

5

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