Paper 1 – Non-Calculator – 20 minutes

This will consist of short response questions, based on a selection of knowledge and skills developed in the Course, each of which require the use of number processes in contextualised situations.

The questions should be in an appropriate context and cover the following:

- ♦ use of whole number percentages
- calculation of the mean of a data set; the mean should require division of a whole number by a single-digit whole number and rounding of the answer to two decimal places
- ♦ calculating a non-unitary fraction of a quantity
- ♦ adding two decimal numbers and then subtracting from the result
- ♦ multiplying a decimal number by a whole number

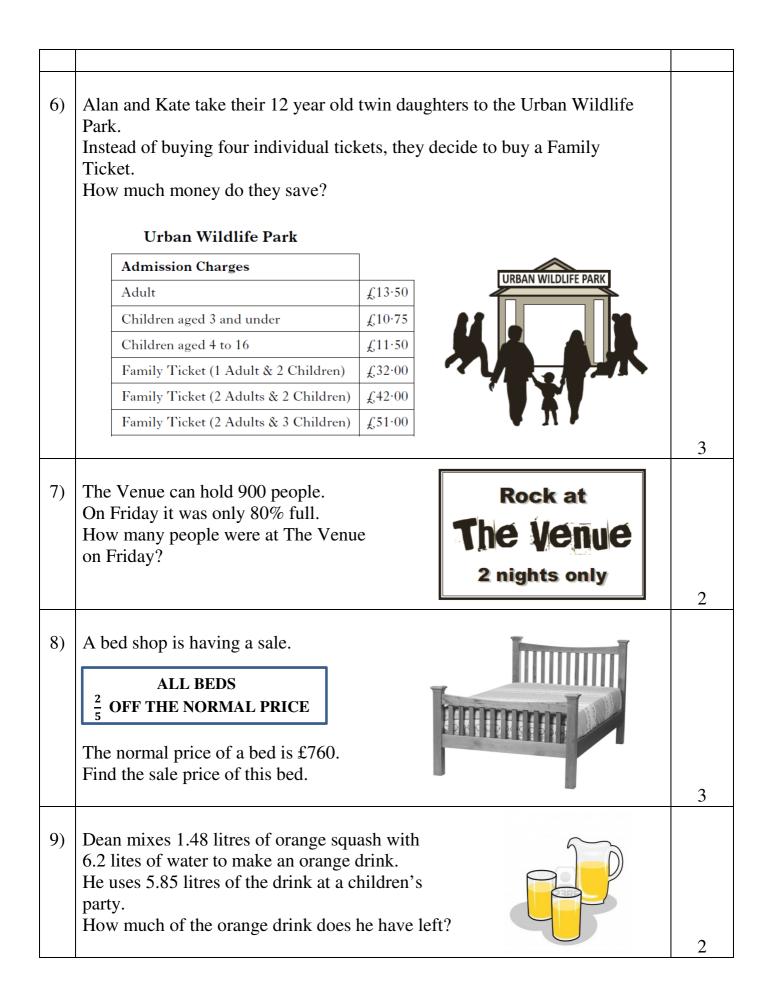
Paper 2 – Calculator – 40 minutes

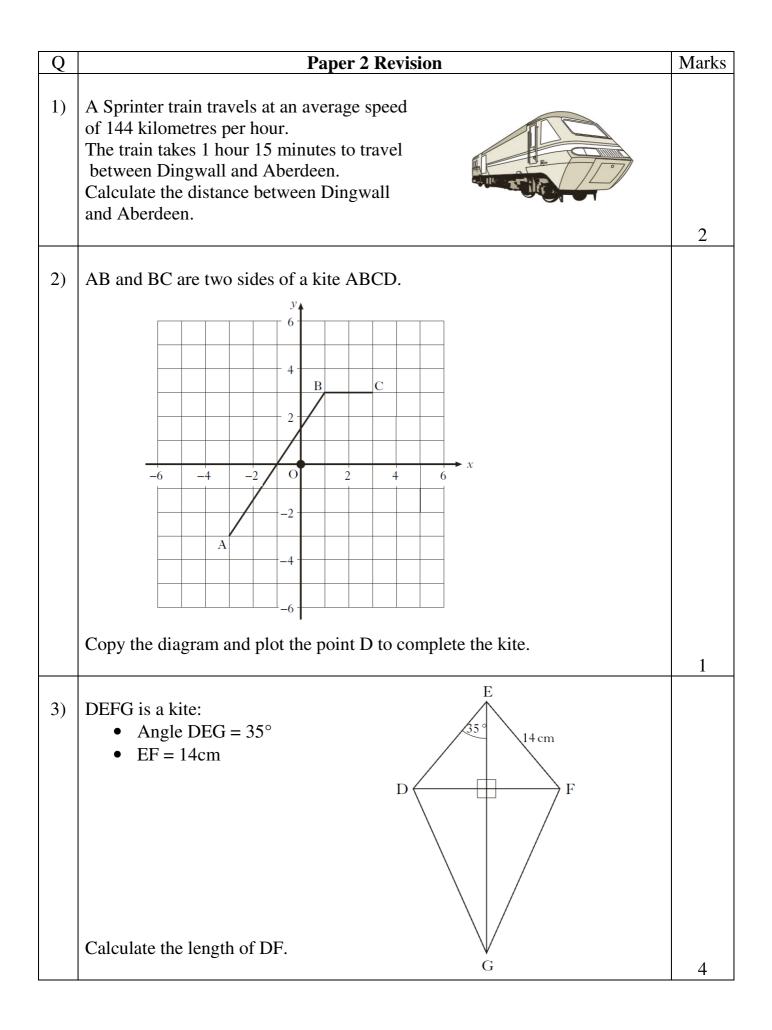
This will consist of short and extended response questions based on a selection of knowledge and skills developed in the Course.

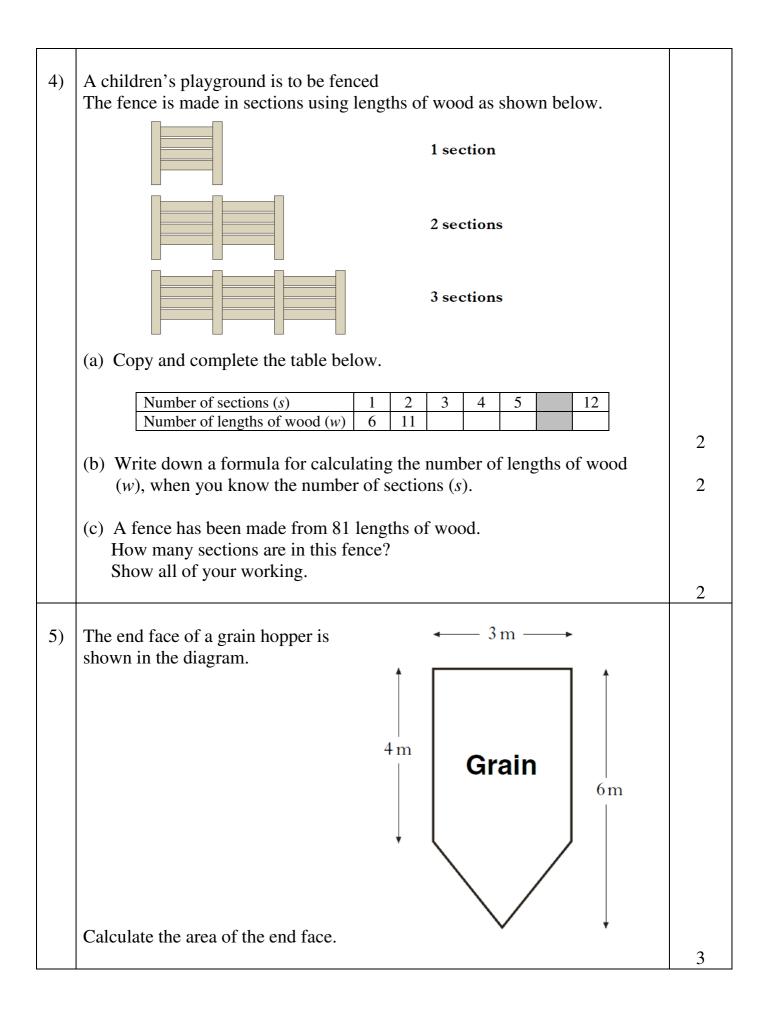
The questions should be in an appropriate context and cover the following:

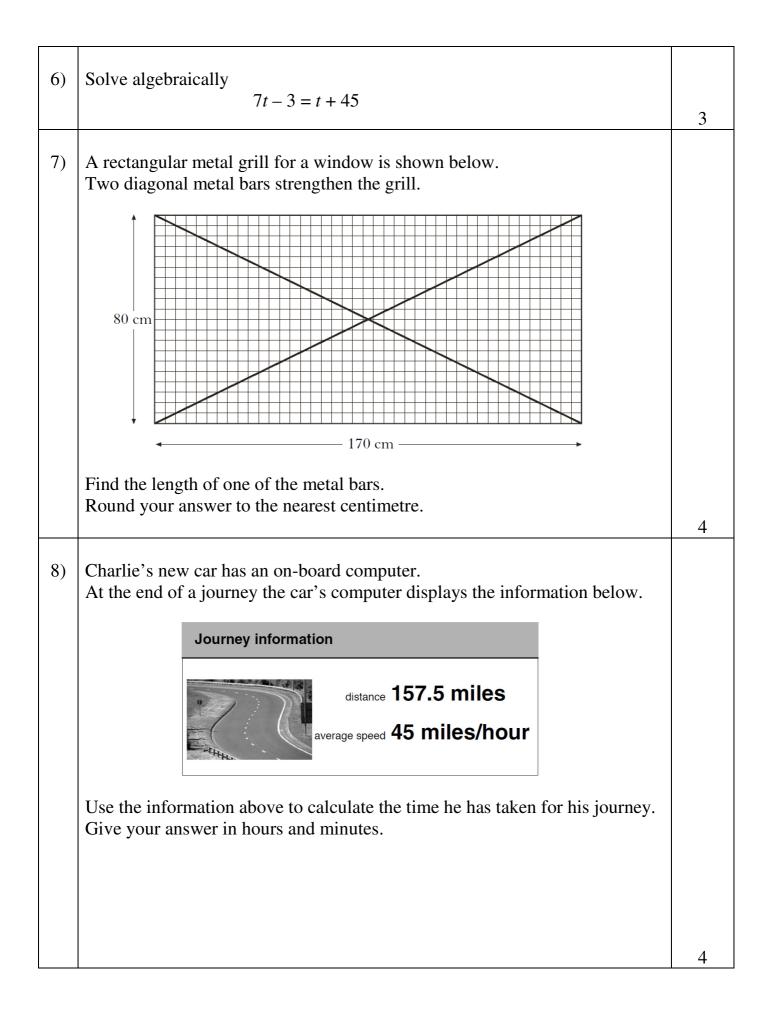
- ♦ solving a linear equation requiring simplification
- ♦ solving a problem using area or volume
- ♦ creating and then using a formula
- using the relationship involving speed, distance and time, where the time is given or calculated as hours and minutes.
- use of Pythagoras' theorem in a problem
- use of trigonometry to calculate a side or angle of a right-angled triangle
- ♦ solving a problem involving shape and coordinates

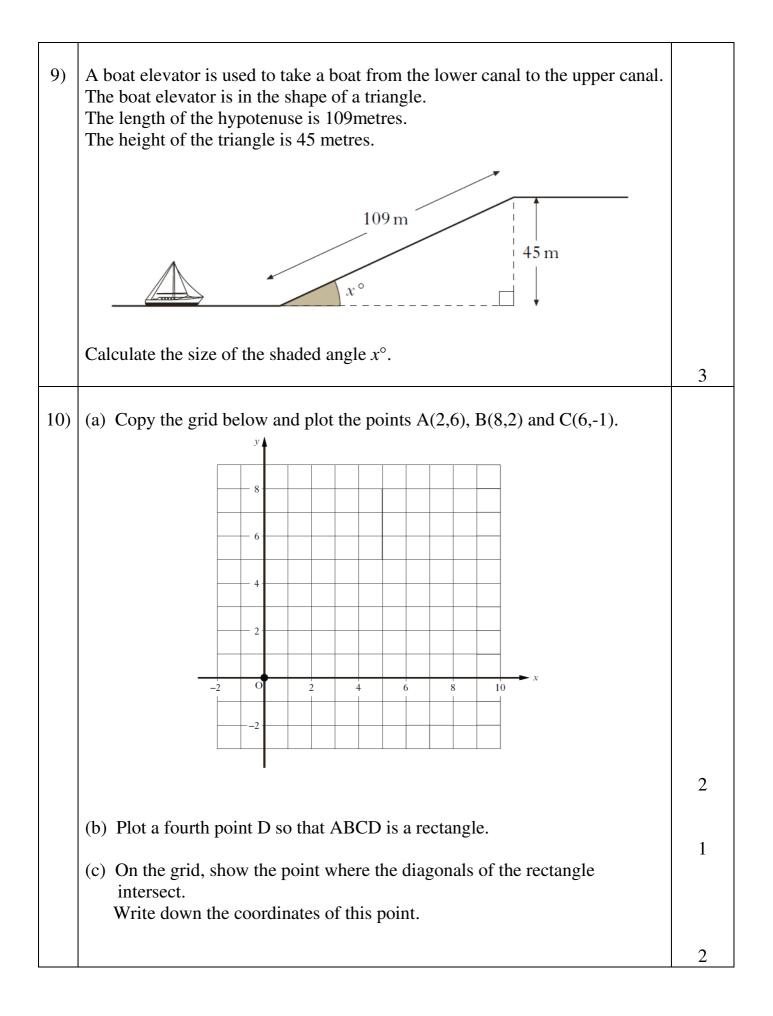
Q	Paper 1 Revision	Marks
1)	Pamela sees a bracelet costing £65 in a jeweller's window. The jeweller offers Pamela a 5% discount. Pamela decides to buy the bracelet. How much does she pay?	3
2)	Emily is a student and she buys a pizza from Paulo's Pizzas. She chooses a pizza which is normally £8.49. How much will Emily pay for the pizza? $Paulo's Pizzas$ $Student Discount$ $\frac{1}{3} off the price of each pizza$	3
3)	In the "Fame Show", the percentage of telephone votes cast for each act is shown below. Plastik Money 23% Brian Martins 35% Starshine 30% Carrie Gordon 12% Altogether 15 000 000 votes were cast. How many votes did Starshine receive?	3
4)	A Maths textbook cost £9.49. How much will it cost to buy 8 new textbooks?	2
5)	The amount of pocket money received by 6 children is: £8, £10, £5, £12, £10, £14 Calculate the mean amount of pocket money. Round your answer to the nearest penny.	3

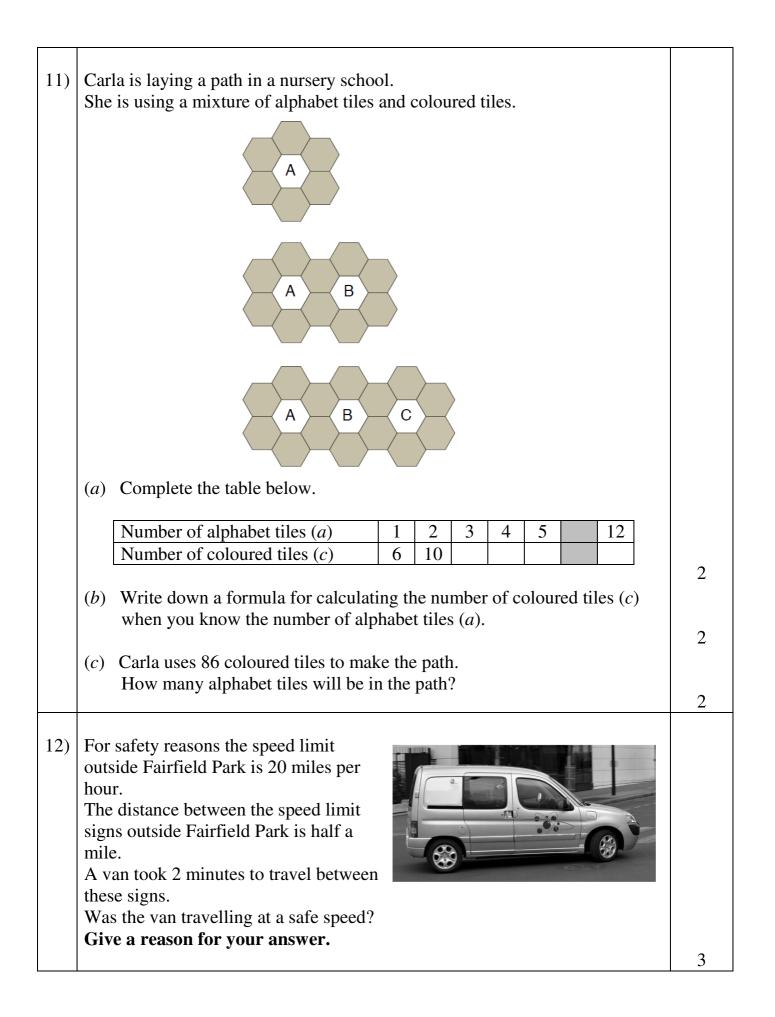


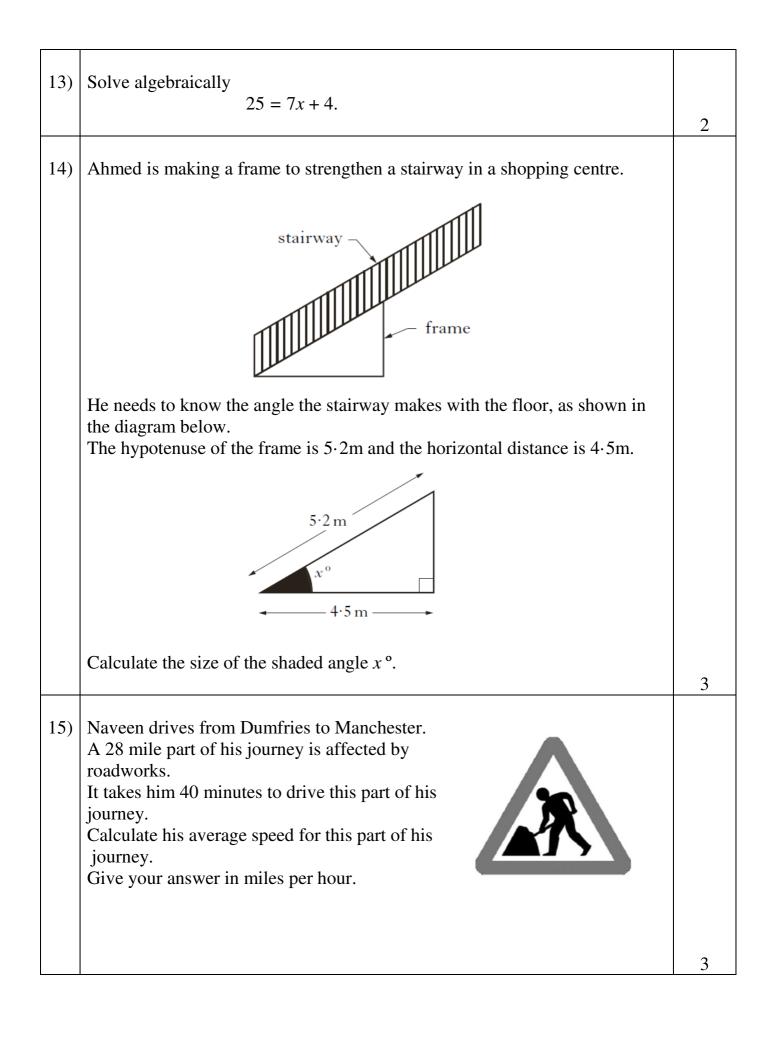


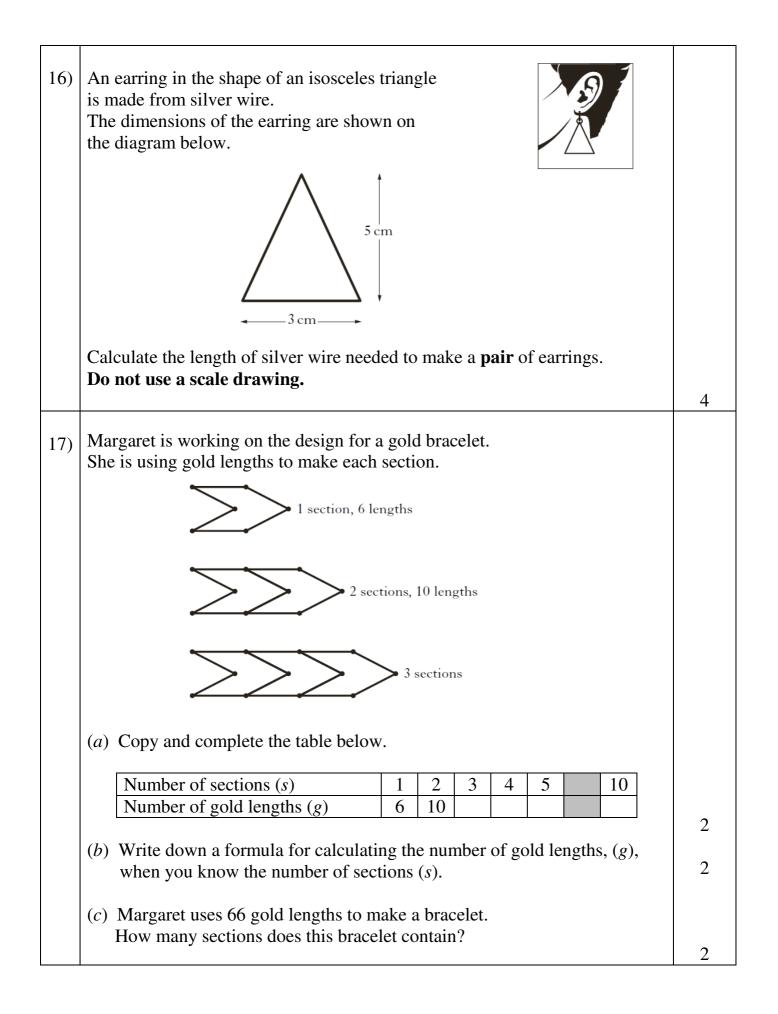


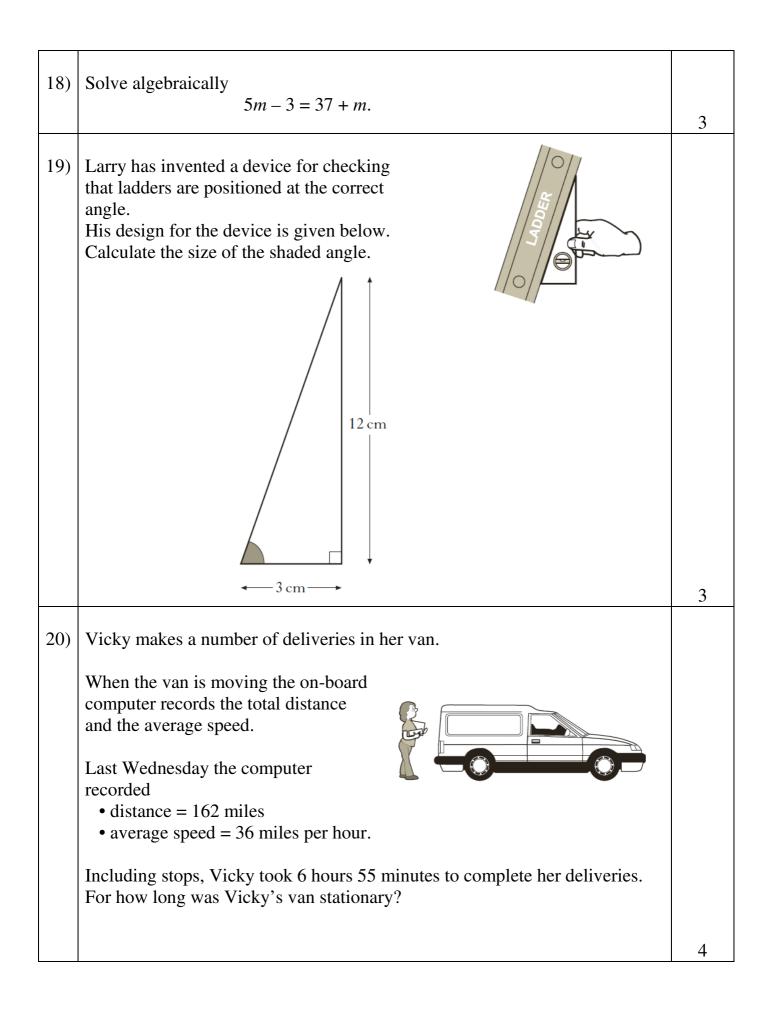


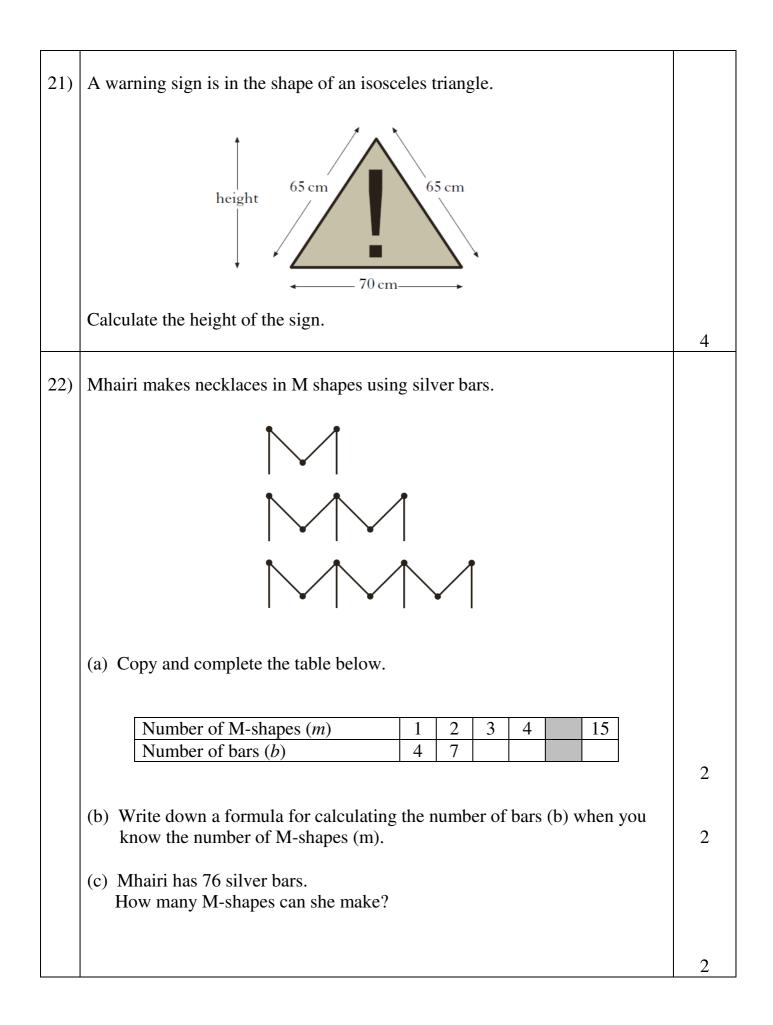


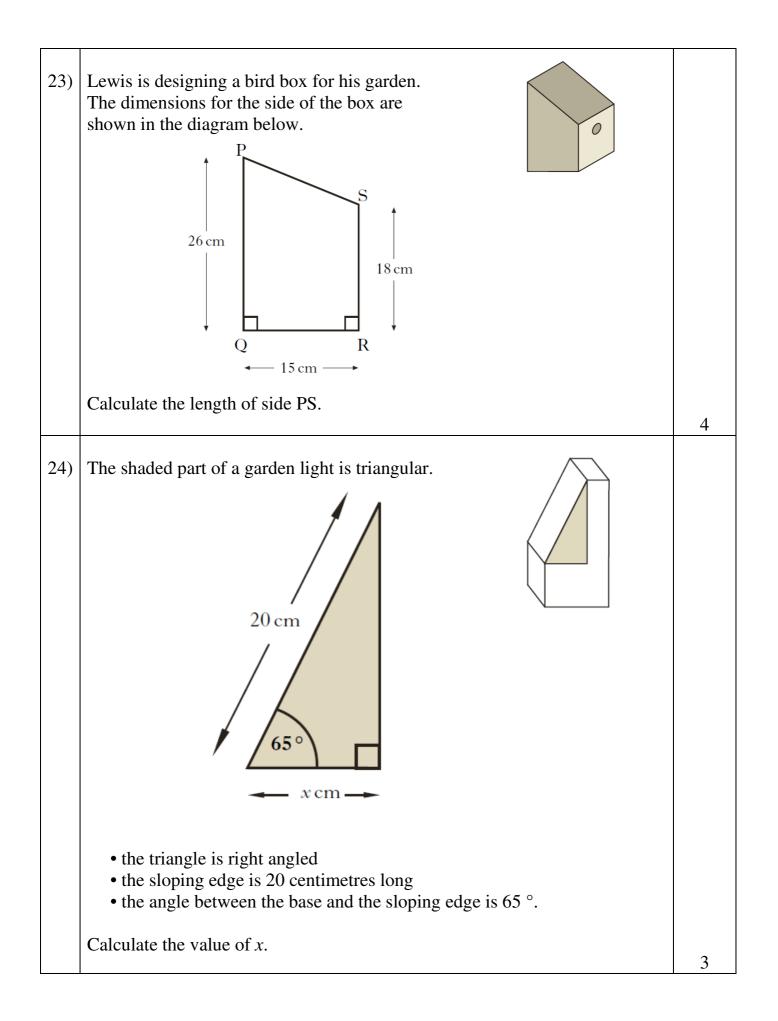


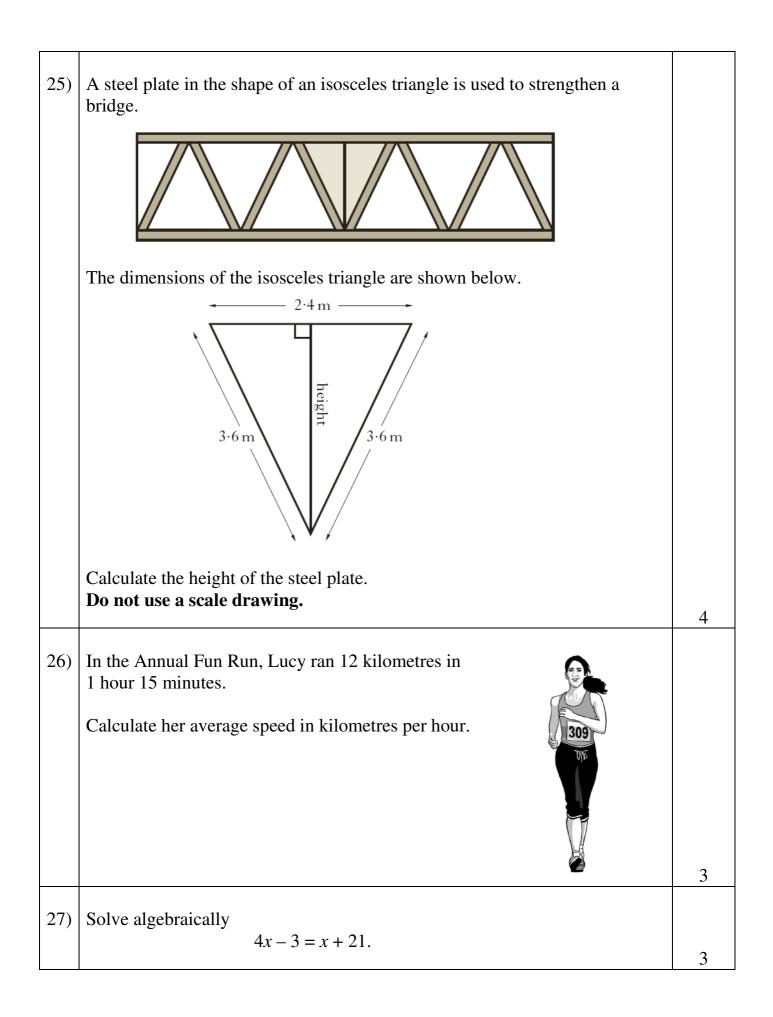












28)	Samira is designing a chain belt. Each section of the belt is made from metal rings as shown below.	
	1 section, 4 rings	
	2 sections, 9 rings	
	3 sections	
	(<i>a</i>) Complete the table below.	
	Number of sections (s)1234511Number of metal rings (r)49 $ -$	2
	(<i>b</i>) Write down a formula for calculating the number of rings (<i>r</i>), when you know the number of sections (<i>s</i>).	2
	(c) Samira uses 79 rings to make her belt. How many sections does her belt have?	2
29)	Maggie has bought a garden shed. The dimensions for one side of the shed as shown in the diagram opposite.	
	190 cm 230 cm	
	Calculate the length of ST. V U	
	Do not use a scale drawing. $\leftarrow 120 \mathrm{cm} \rightarrow$	Л
		4

30)	An amusement arcade has a lighting effect in the shape of triangles with coloured lights attached. The lighting effect can be assembled in sections as shown below.	
	1 section	
	2 sections	
	(<i>a</i>) Complete the table below.	
	Number of sections (s)1234512	
	Number of coloured lights (c) 6 11	2
	(b) Write down a formula for calculating the number of coloured lights (c) when you know the number of sections (s).	2
	(c) The amusement arcade's lighting effect uses a total of 116 coloured lights.How many sections are in the lighting effect?	2
31)	At the World Athletic Championships the mean time for the first semi-final of the 100 metres was 9.98 seconds.	
	For the second semi-final the times, in seconds, were:	
	10.21 10.04 9.92 9.98 10.04 9.94 9.9 9.73.	
	Was the mean time for the second semi-final better than the mean time for the first semi-final?	
	Give a reason for your answer.	4

