

GCSE Mathematics - Paper 1 (Foundation tier)

J560/01 Paper 1 Mathematics (Foundation tier)

Question Set 2

(a) Write down each of the following	ng	ng	llowing	foll	e '	the	of	each	down	Write	(a)	(
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(i) An odd number.

1

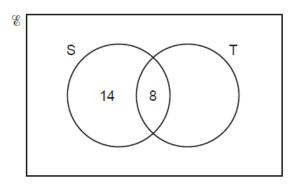
2

				(a)(i)	[1]
(ii)	A factor of 25.				
(iii)	A prime number betwe	een 20 a	and 30.	(ii)	[1]
				(iii)	[1]
(b) Sho	ow that 55 is not a squa	are num	ber.		[2]
Here are	e the first four terms of	a seque	ence.		
		3	8	13	18
(a) (i)	Write down the next te	erm of t	he sequ	ence.	
				(a)(i)	[1]
(ii)	Explain how you work	ked out	your ans	swer.	
					[1]
(b) Exp	blain why 534 is not a te	erm in t	his sequ	ience.	

......[1]

- ³ A survey asked whether some students went swimming (S) or played tennis (T) last month.
 - 17 played tennis.
 - 11 did not go swimming and did not play tennis.
 - 22 went swimming.
 - 8 went swimming and played tennis.

Some of this information is shown on the Venn diagram below.



How many students were in the survey?

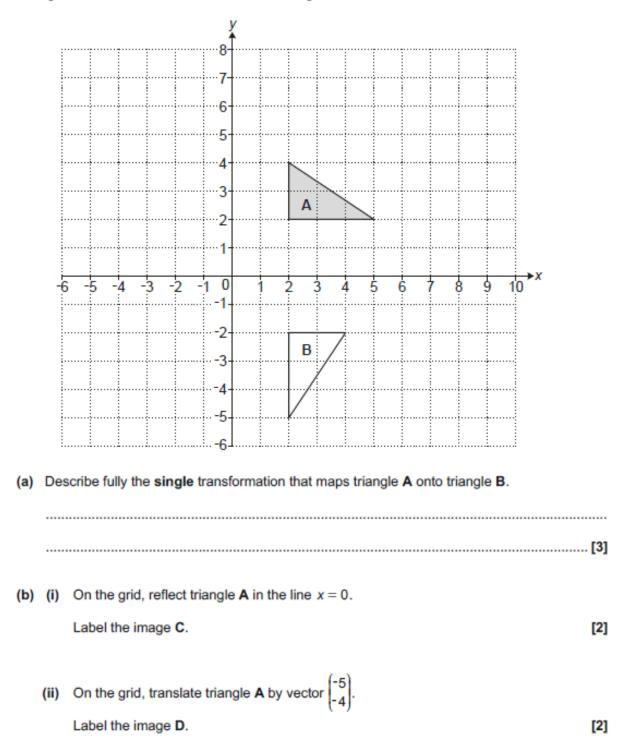
.....[3]

4 Mr and Mrs Wilde have five children who are all different ages.

- The mean age is 6.4.
- The range is 9.
- The median is 6.
- The oldest child is 12.

Work out the ages of the children. Write their ages from youngest to oldest.

youngest		oldest



6 Jack and Alex take rubbish to be recycled. Jack takes 520 kilograms, 87% of which can be recycled. Alex takes 750 kilograms, 61% of which can be recycled.

Calculate who takes the greatest amount of rubbish that can be recycled and by how much.

..... by kg [3]

7 Anna and Paddy take part in the same fun run.

Anna completed the fun run in 2 hours. Her average speed was 6 kilometres per hour. Paddy completed the fun run in 90 minutes.

(a) Work out Paddy's average speed in kilometres per hour.

(a) km/h [4]

(b) Anna says

Because I stopped for drinks, my average running speed was faster than 6 kilometres per hour.

Give one reason to support Anna's statement.

......[1]

8 The volume of a piece of wood is 620 cm³. Its density is 0.85 g/cm³.

Work out its mass.

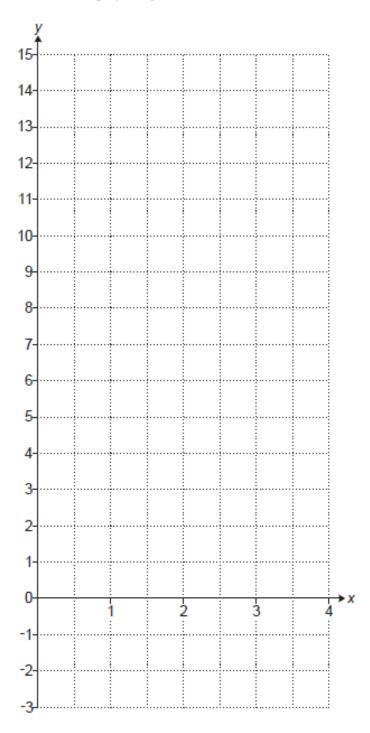
...... g [2]

9 (a) Complete this table for y = 4x - 2.

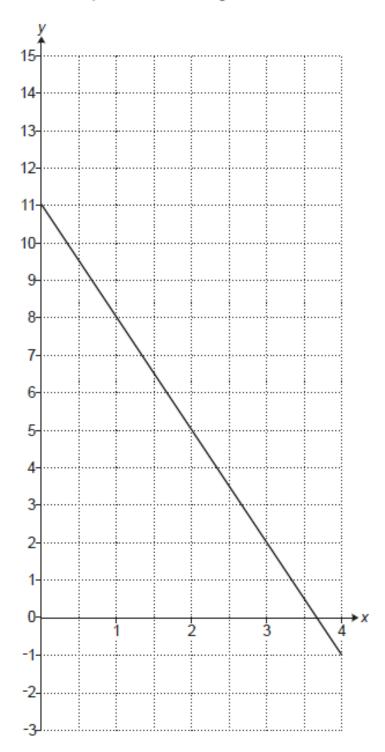
x	0	1	2	3	4
У	-2	2	6		14

[1]

(b) On the grid below, draw the graph of y = 4x - 2 for values of x from 0 to 4.

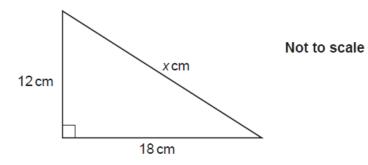


[2]



Find the equation of this straight line.

(c)[3]



Work out the value of x.

x =[3]

James and Elizabeth buy some clothes.

James buys 5 shirts and 4 jumpers. He pays £163. Elizabeth buys 3 shirts and 2 jumpers. She pays £89.

Assume that each shirt has the same cost and that each jumper has the same cost.

Work out the cost of one shirt and the cost of one jumper. You must show your working.

1 Claudia invests £25000 at a rate of 2% per year compound interest.

2

1

1

Calculate the total amount of **interest** she will have earned after 5 years. Give your answer correct to the nearest penny.

£[4]

Total Marks for Question Set 2: 50



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