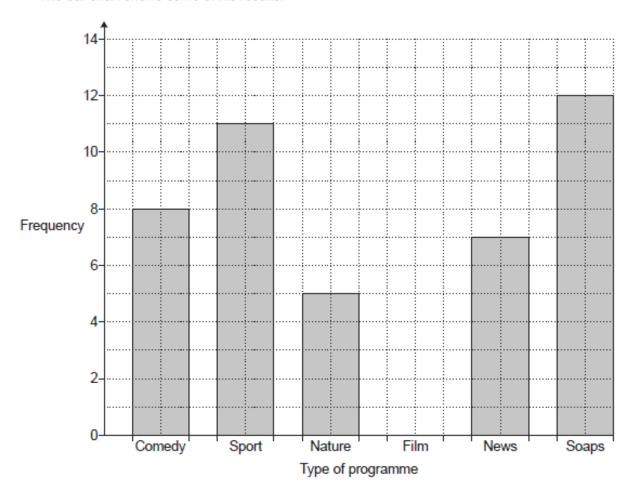


GCSE Mathematics - Paper 1 (Foundation tier)

J560/01 Paper 1 Mathematics (Foundation tier)

Question Set 5

Reece asked some friends what type of programme they watch most on television.
The bar chart shows some of his results.



(a) 10 people answered Film.

Complete the bar chart to show this information.

[1]

[1]

(b) Complete these sentences.

(i) was chosen by the most people.

(ii) people chose News. [1]

(iii)fewer people chose Nature than Comedy. [1]

2	(a) Write 2% as a decimal.		
	(b) Write $\frac{11}{20}$ as a percentage.	(a)[1]	
3	Use one of the symbols $<$, = or $>$ to m	(b) % [1] make each statement true.	
	(a) 0.7		[1]
	(b) 27.06 27.59		[1]

	26 only ha	ive a cat.				
:	14 only ha		d a dog.			
			on the Venn	diagram.		
	ą		c		D	
(b)	(i) How	many of the	families do r	not have a cat or	a dog?	
(b)	(i) How	many of the	families do r			
(b)	(i) How	many of the	families do r	not have a cat or	a dog?	
(b)						
	(ii) Write	your answe	r in the corre	(b)(i) ect place on the		
	(ii) Write	your answe	r in the corre	(b)(i) ect place on the v		
	(ii) Write	your answe	r in the corre	(b)(i) ect place on the		
	(ii) Write	your answe	r in the corre	(b)(i) ect place on the v		

5	Nadia thinks of a number. She finds the square root and then divides by 5. Her answer is 20.	
	What number is she thinking of?	
		 [2]

	It then accelerates at 0.5 m/s ² for 6 seconds.
	Use the formula $v = u + at$ to calculate the velocity of the train after the 6 seconds.
	(a) m/s [2]
(b)	Rearrange the formula $v = u + at$ to make a the subject.
	(b)[2]

6

(a) A train is travelling with a velocity of 15 m/s.

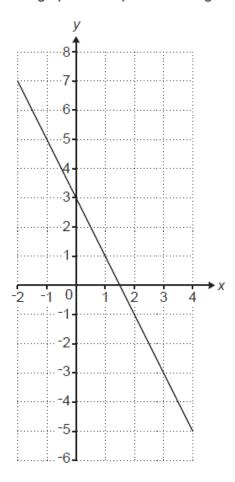
7 The table below shows the number of barrels of oil produced per day by some countries.

Country	Barrels of oil produced per day
USA	1.17×10 ⁷
China	3.98 × 10 ⁶
UK	9.39 × 10 ⁵
Cameroon	9.32 × 10 ⁴
Japan	3.92 × 10 ³

	UK	9.39 × 10 ⁵	
	Cameroon	9.32 × 10 ⁴	
	Japan	3.92 × 10 ³	
(a)	Write the number of barre	els of oil produced per day by C	ameroon as an ordinary number.
		(a)	[1]
(b)		of oil per day did China produce dard form, correct to 3 significa	
		(b)	[4]
(c)	Jamal says the USA prod	uced approximately three time	s more barrels of oil than Japan.
	Is he correct? Show how you decide.		
	Jamal is	because	
			[2]

8		taking three exan		oers in Spanish.			
	Paper 1:	80	Paper 2:	38 65			
		s out of 95. s in each of the th	nree papers	are added toge	ther.		
	Find the I	owest mark that J	lames need	ls in Paper 3 to a	achieve 60% of	the total marks.	
							[4]
9	Three pe	ople take 2 ¹ / ₂ hou	rs to deliver	leaflets to 270 l	nouses.		
	leaflets to	g all people delive o 405 houses? r answer in hours			, how long will	it take five people	to deliver
						hours	mins [4]

10 This graph shows part of a straight line.



(a) Write down the y-intercept.

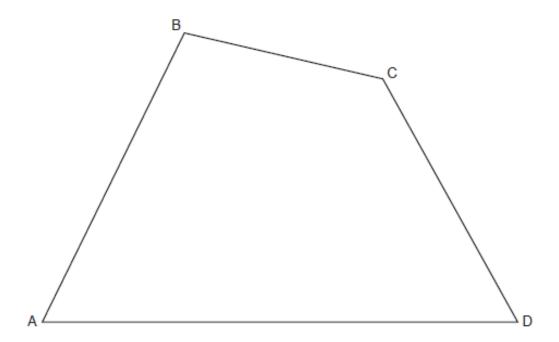
(a)[1]

(b) Show that the gradient of the line is -2.

[1]

	(0	c)	[1]
(d)	The line continues to the right.		
	Will this line pass through the point (50, ~103)? Show how you decide.		
	because		
			[2]

(c) Write down the equation of the line.



(a) Construct the bisector of angle ABC. Show all your construction lines.

[2]

(b) Construct the perpendicular bisector of BC. Show all your construction lines.

[2]

- (c) Shade the region which is
 - nearer to BC than to AB and
 - nearer to B than to C.

[1]

This month she has orders for 133 microway Calculate her expected percentage profit on	this month's order.
Showing your working in the boxes below ma	ay help you present your work.
Expected number of faulty microwaves:	Expected costs:
Income from sales:	Expected percentage profit:

12

Lily buys and sells microwaves.

She buys each one for £32 and sells it for £60.

She also pays £7 for the delivery of each microwave she sells.



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