SECONDARY SCHOOLS ANNUAL EXAMINATIONS - 2000

Educational Assessment Unit - Education Division

	FORM 2	MATHEMATICS (MENTAL)	TIME: 15 minutes
	Name		Mark
	Class	-	
•	NOT ALLOWED.		
		DO NOT	
		WRITE	
		IN THS	
		SPACE	

QUESTION	ANSWER
1. What is the value of 3 in the number 5307?	
2. Write down the next number in the following pattern: 1, 3, 6, 10,	
3. Write down, in its simplest form, the fraction of the shape that is shaded.	
 4. The size of the angle shown is: A) 45° B) 30° C) 10° D) 150° 	
5. By counting the squares estimate the area of this four pointed star.	
6. Matthew earns Lm180 weekly and saves 10% of it. How much does he save in one week?	
7. How many minutes did the lesson last?	
8. $\frac{x}{2} = 6$. What is the value of x?	
9. Draw the line of symmetry of the given diagram.	
10. Place the correct symbol >, < or = between the following numbers:	
$\frac{4}{5}$ 0.8	

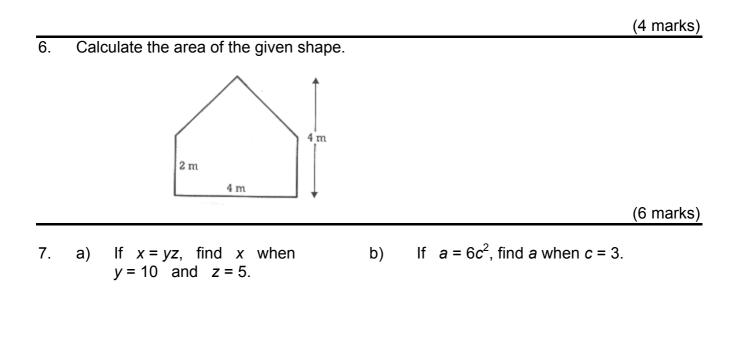
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FORM 2 MATHEMATICS (Main Paper) TIME: 1 h 45 m													45 min					
Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Main	Mental	Global Mark
Mark																		
	DO NOT WRITE ABOVE THIS LINE																	
Name Class																		
	1. In a class of 24 students there are 15 girls. Write down the number of boys as a fraction of the number of students in the class. Give your answer in its simplest form.																	
																	(4	1 marks)
2. 5	Solve	the	equa	ation	2	2a +	4 =	= 12) 									
(4 marks)																		
]		• -	(. ²			2			. 1	,		•-	•	<u> </u>
								-				-		Z	ABC	IS (equal	to 52°.
	Find the size of \angle BAC.																	
										В	52				² С		(4	1 marks)

4. Find 15% of 2.2 metres. Give the answer in centimetres.

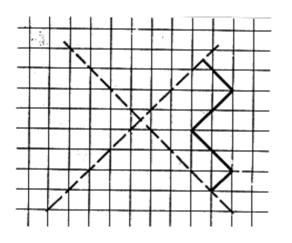
5. Seven pupils got the following marks on a test: 9, 6, 6, 5, 4, 7, 5. What is the mean mark?



 If you throw an ordinary six-sided dice, what is the probability that you will *not* get a score of 5 or more? Give the answer as a fraction in its simplest form.

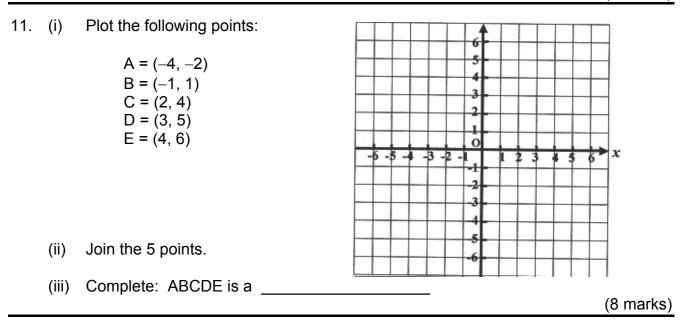
(6 marks)

9. Complete the given drawing so that the dotted lines are lines of symmetry.



- 10. 5 pairs of jeans of the same brand cost Lm41.25.
 - (i) What is the cost of 1 pair of jeans of this brand?
 - (ii) What is the cost of 4 pairs of such jeans?
 - (iii) How many pairs of jeans of this brand can I buy if I have Lm50?





12. (i) Write down the name of the quadrilateral shown in the figure. Give a reason.

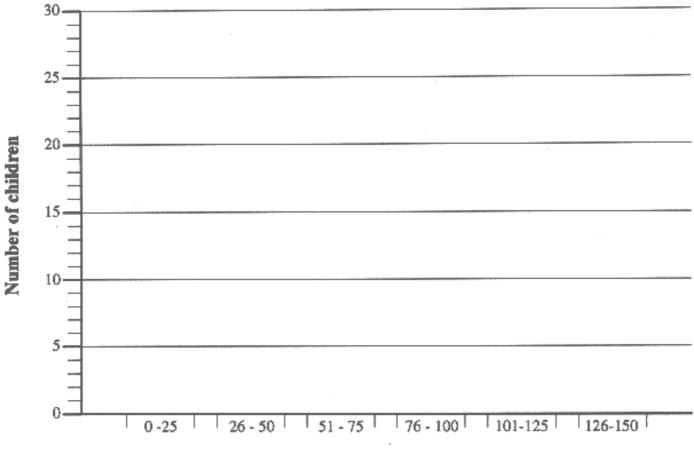


(ii) Find the size of the angles marked x, y, and z. Give the reasons.

13. A group of 13 year olds were asked how much pocket money they were given each week. This frequency table was made from this information.

Weekly pocket money (cents)	0 - 25	26 - 50	51 - 75	76 - 100	101 - 125	126 - 150
Number of children	10	15	22	28	20	5

- i) How many children were asked how much pocket money they received?
- ii) How many children got 75c or less each week?
- iii) Draw a bar chart to show the information in the above table.

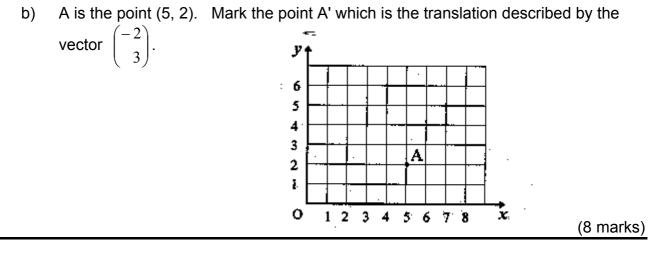


Pocket money (cents)

AS/form2 main2000

(8 marks)

14. a) A round table has a diameter of 120cm. Find the circumference of the table in metres. Give your answer correct to 2 decimal places $[C = 2\pi r]$.



- 15. A water tank in the shape of a cuboid has sides 2.3m, 1.8m and 1.2m.
 - (i) Calculate its volume in cubic centimetres.
 - (ii) Find the capacity of the tank in litres if $1000 \text{ cm}^3 = 1$ litre.
 - (iii) How many litres of water are in the tank if it is 1/4 full?

(8 marks)