## **SECONDARY SCHOOLS ANNUAL EXAMINATIONS - 2002**

Educational Assessment Unit - Education Division

FORM 1	MATHEMATICS (MENTAL)	TIME: 10 min.
Name	Mark	Class
<ul> <li>CALCULATORS</li> <li>INSTRUMENTS</li> <li>WRITE DOWN</li> </ul>	QUESTIONS. ON CARRIES 1 MARK. S, RULERS, PROTRACTORS AND O ARE NOT ALLOWED. YOUR ANSWER ONLY IN THE SPACE PROV ONTAINS 10 QUESTIONS.	
	DO NOT WRITE	
	IN	

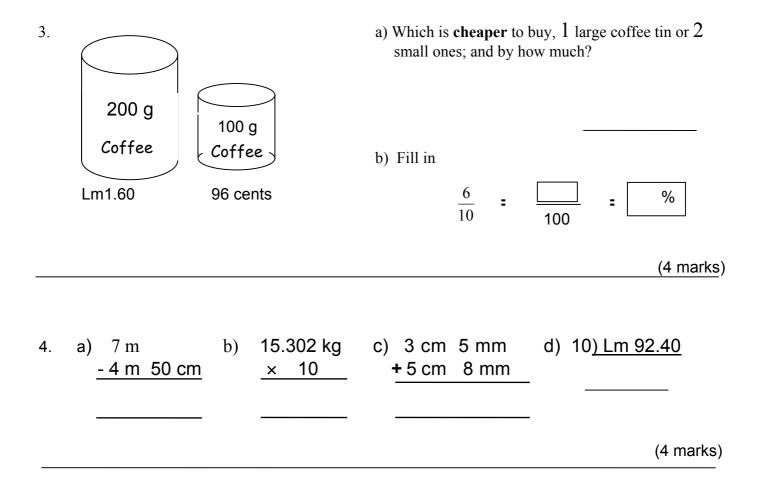
THIS

**SPACE** 

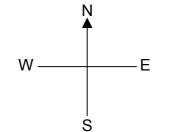
QUESTION	Space for working if required			
1. What number is 1 greater than 30199?				
Ans:     2. Write in figures the number seven hundred and fourteen.				
Ans:				
3. The diameter of a wheel is 20 cm. How long is its radius?				
Ans:				
4. Which is the <b>largest</b> length?				
A) $0.70 \text{ m}$ , B) $\frac{3}{4} \text{ m}$ , C) 65 cm, D) $0.09 \text{ m}$ Ans:				
5. What is the value of <i>b</i> when $a = 7$ ? $a \rightarrow 4$ $b$ Ans:				
6. Give an <b>estimate</b> for the length of the line AB.				
A B Ans:				
7. The <b>dotted</b> line is a line of symmetry. Complete the diagram.				
8. Write Lm738.52 correct to the <b>nearest</b> Lm.				
Ans:				
9. How many 1cm squares do I need to make this square? 3cm				
5cm     Ans:				

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					Εdι	ucatio	onal /	Asse	ssme	ent U	nit - l	Educ	ation	Divi	sion			
FORM '	1					MA	THE	MAT	ICS	(Ma	in Pa	aper	)			TIME	: 1h 50	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 _	ame Class																	
	CALCULATORS ARE NOT ALLOWED																	
ANSW	T P																)	
1. a)	L N .		7	7.65 2.18		<b>J</b> 115	•		1	/	Fill ir +	١	2	7 5 9				
c) Fill in $8 \times 2 = 34$							Use all these figures 1 2 3 to make the <b>largest odd</b> number.											
																		(4 marks)
<ol> <li>a) Which 2 objects do I buy for exactly Lm1?</li> </ol>						1		How many degrees does the hand of the clock turn through when it goes from 1 to 4?										
	iií)	pop ice ) cho ) drir	cola	am: te: 4														



5. a) I start facing west and turn east. How many degrees do I turn through?



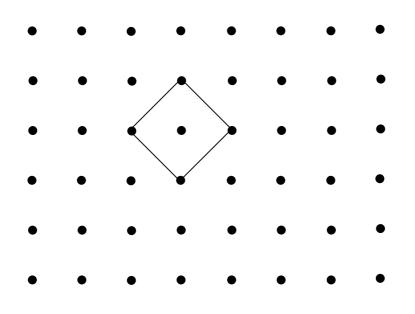
b) An aeroplane at A, is facing north. It turns 90° **anticlockwise**. Mark its new direction on the diagram.



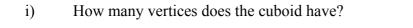
ii) of the dotted square is  $\__cm^2$ .

(6 marks)

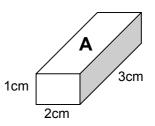
.



b) Solid A is a cuboid.

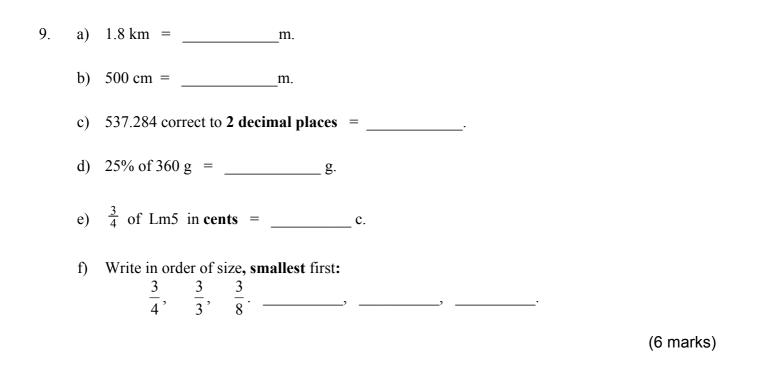


ii) What is the volume of the cuboid?

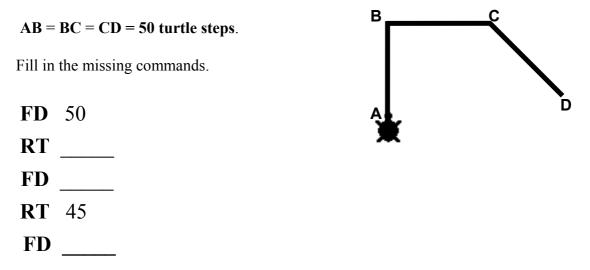


iii) What is the area of the smallest face?

(6 marks)



10 a) The figure shows the turtle at the starting position. The turtle **moves** from point **A** to point **D**.



b) The figure shows the turtle at the starting position. The turtle moves from point X to a point Y.

Following this set of commands, draw a diagram to show how the turtle moves from point X to the point Y.

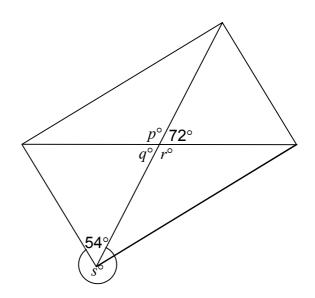
FD 40 LT 90 FD 80

х¥

(6 marks)

11. a) Write the values of *p* and *s*.

- ii) s = \_\_\_\_\_



b) Fill in the spaces below using words from this list:

## vertically opposite, acute, reflex, right, revolution

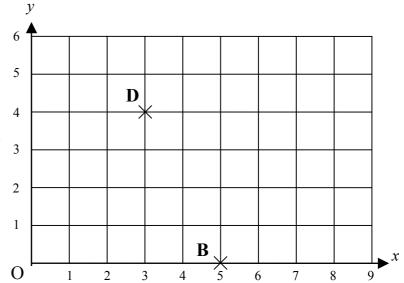
- i) p, q, r and 72° together form a \_\_\_\_\_.
- ii) Angles *p* and *r* are called \_\_\_\_\_\_ angles.
- iii) Angle *s* is called a \_\_\_\_\_\_ angle.

c) On the diagram mark a pair of parallel lines using arrows.

(8 marks)

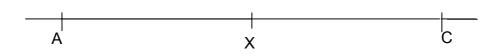
12 a) Write the coordinates of the points **B** and **D**.

- B = ( , )D = ( , )
- b) Plot and label the points A(0, 0), C(8, 4)
- c) Join the points **A**, **B**, **C** and **D** to form a shape.
- d) The lines **AC** and **BD** are called d
- e) Mark a pair of **equal** angles on the shape.



(8 marks)

- a) Using ruler and compasses only, draw triangle ABC in which AC = 10cm, AB = 6 cm, BC = 8 cm
  - b) Using a **protractor** measure angle **A** Angle A = \_\_\_\_\_
  - c) Triangle ABC is (scalene, isosceles, equilateral ).
  - d) X is a point on AC. With **centre X** and **radius** 5 cm, draw a circle.
  - e) Write down the length of **BX**.  $BX = \_\_cm$ .

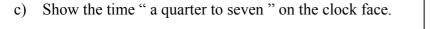


(8 marks)

## 14. a) Complete

b) What is the time shown on this clock face?

(i)  $1 \text{ day} = \_$  hours



as on a 12 hour clock.

15:30

- 15 This chart shows the daily income of a supermarket
  - a) Write down the incomes on

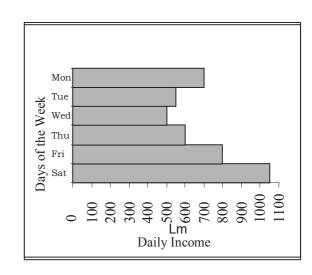
d) Write the time

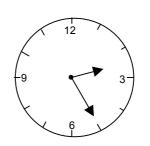
- Monday i)
- ii) Tuesday

iii) Thursday

b) On which 2 days were the incomes more than Lm 700? and

c) What is the difference between the highest and the lowest daily incomes?





Т 12

(ii) 1 minute = \_\_\_\_\_ seconds

(8 marks)

(8 marks)

(a. m. / p. m.)