## **SECONDARY SCHOOLS ANNUAL EXAMINATIONS - 2001**

Educational Assessment Unit - Education Division

FORM 1	MATHEMATICS (MENTAL)	TIME: 15 minutes
Name		Mark

• ANSWER ALL QUESTIONS.

Class

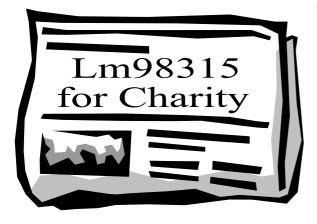
- EACH QUESTION CARRIES 1 MARK.
- CALCULATORS, RULERS, PROTRACTORS AND OTHER MATHEMATICAL INSTRUMENTS ARE NOT ALLOWED.
- WRITE DOWN YOUR ANSWER ONLY IN THE SPACE PROVIDED.

## DO NOT WRITE IN THIS SPACE

	QUESTION	ANSWER
1.	Fill in the missing number to make <b>equivalent fractions</b> .	$\frac{12}{18} = \frac{12}{3}$
2.	What <b>percentage</b> of the square was <b>removed</b> ?	
3.	Draw the next arrangement of the following pattern.	
4.	Write $\frac{1}{2}$ as a <b>decimal</b> .	
5.	What change do I get from Lm10 if I buy? 50c each Lm6.50	
6.	How many <b>edges</b> does a cuboid have?	
7.	The size of this angle is roughly:   A) 60° B) 80° C) 100° D) 170°	
8.	Look at the function machine. Find the value of y when x is <b>6</b> . x + 3 + x5 + y	
9.	How many <b>degrees</b> are there <b>between the hands</b> of the clock at exactly 5:00 o'clock?	
10.	There are <b>24 sweets</b> in a packet. These sweets are <b>divided equally</b> among <b>3 children</b> . How many sweets does <b>each</b> child get?	

## **SECONDARY SCHOOLS ANNUAL EXAMINATIONS 2001** Educational Assessment Unit - Education Division FORM 1 **MATHEMATICS (Main Paper)** TIME: 1 h 45 min Total Global Mental 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 Question Main Mark Mark DO NOT WRITE ABOVE THIS LINE Name Class CALCULATORS ARE NOT ALLOWED **ANSWER ALL QUESTIONS.** 3.49 418 1. a) b) 5.28 $\times 7$ + 7.09

c) The picture shows the headlines of a newspaper:

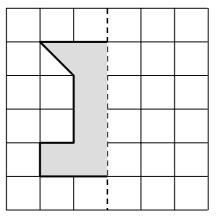


i) Write 98315 in words:

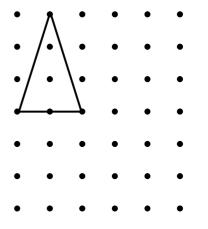
ii) Write 98315 correct to the nearest 1000.

4 marks

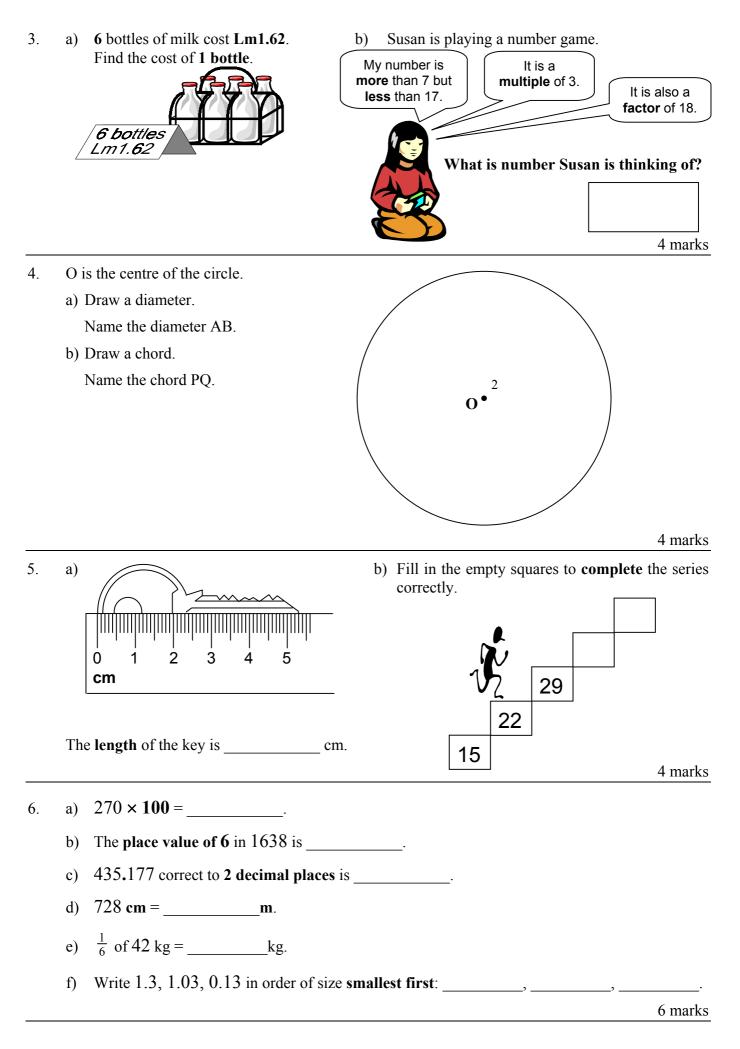
2. a) The dotted line is a line of symmetry. Complete the figure:



b) Show **by drawing** if the shape tessellates or not.



4 marks



7 a) Work out and give your answer as a mixed number:

$$\frac{4}{5} + \frac{3}{5}$$

b) Put < or > in the space to make the statement correct:

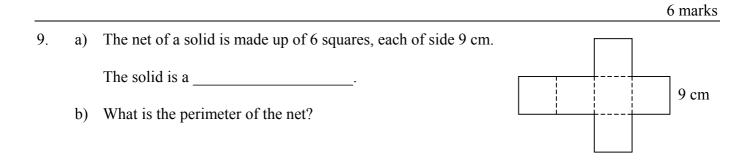


6 marks

8. a) Complete: 
$$\frac{3}{10} = \frac{100}{100} = 10\%$$

- b) In a village of 15000 residents 30% are children.
  - i) How many children are there?

ii) What percentage of the residents are not children?

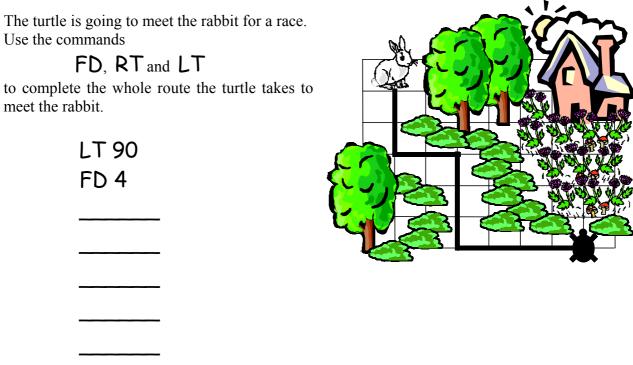


c) What is the volume of the solid formed by the net?

10. The turtle is going to meet the rabbit for a race. Use the commands

LT 90

FD 4

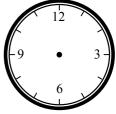


11. a) Complete:

meet the rabbit.

- 1 week = \_\_\_\_\_ days; i)
- ii) 1 year = \_\_\_\_\_ months;
- Draw the hands of the clock to show the b) correct time.

Quarter past eleven:

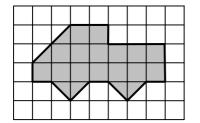


6 marks

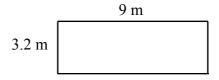
c)	Comp	lete	the	tab	le <sup>.</sup>
U)	Comp	1010	unc	uu0.	iv.

24-hour clock	12-hour clock	a.m. or p.m.
03:40		
		p.m

- 12. a) Fill in : i) 3 m =\_\_\_\_\_ cm;
  - ii)  $240 \text{ mm} = \_ \text{cm}.$
  - b) Find the **area** of the shaded shape in **squares**.



c) Find the **area** of the shape in  $\mathbf{m}^2$ .

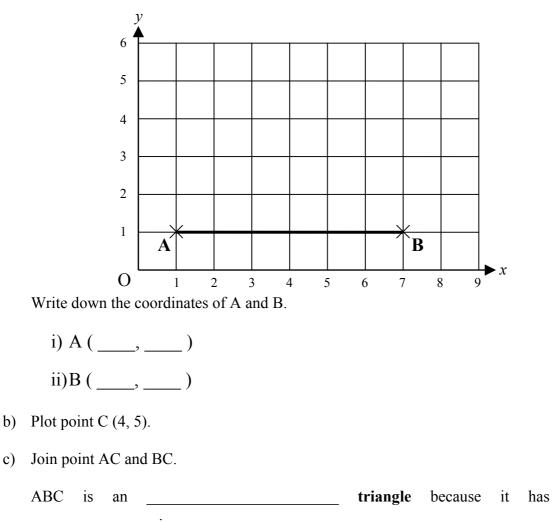


d) A square has an area of 49 cm<sup>2</sup>. Find the length of its side.

 $49 \text{ cm}^2$ 

8 marks

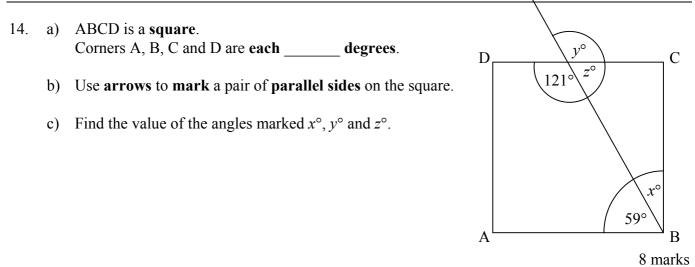
13. a) On the square grid AB is a straight line.



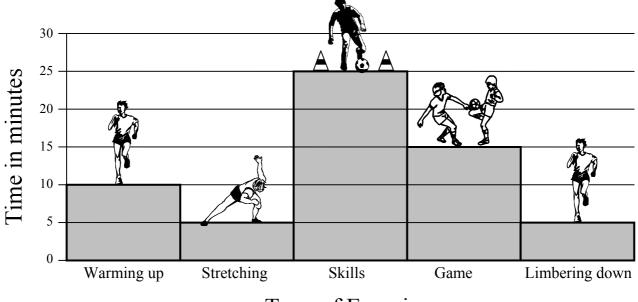
d) Draw the line of symmetry of triangle ABC.

sides

two



15. The bar graph shows how a coach plans a training session for his football team.



## Type of Exercise

a) Use the bar graph to fill in the frequency table:

Type of Exercise	Minutes
Warming up	
Stretching	
Skills	
Game	
Limbering down	

- b) **How long** is the training session?
- c) What **fraction** of the session is spent on **warming up**?
- d) What **percentage** of the session is spent on the **game**?