

SECONDARY SCHOOLS ANNUAL EXAMINATIONS - 2000

Educational Assessment Unit - Education Division

FORM 1

MATHEMATICS (MENTAL)

TIME: 15 minutes

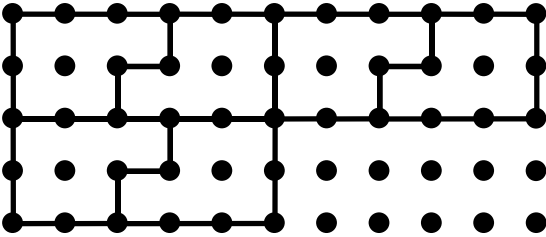
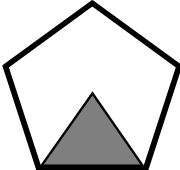
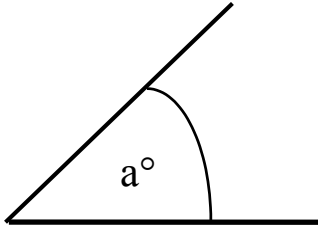
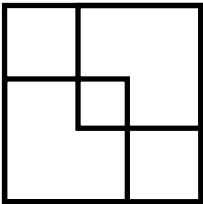
Name _____

Class _____

Mark

- ANSWER ALL QUESTIONS.
- 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
<p>1. Write in figures: seven hundred fifty three.</p>	
<p>2. Which is the larger: 0.007 or 0.01?</p>	
<p>3. Complete the tessellation:</p>	
<p>4. Write down the next number: 3.8, 4.5, 5.2, 5.9.</p>	
<p>5. $3x = 75$ The value of x is: A) 25 B) 72 C) 78 D) 225</p>	
<p>6. What percentage of the shape is shaded: A) 5% B) 20% C) 50%?</p>	
<p>7. Which time is the same as 3:45 p.m.? A) 13:45 B) 15:45 C) 18:45 D) 23:45.</p>	
<p>8. You are facing south. If you turn through $1\frac{1}{2}$ revolutions in which direction will you be facing?</p>	
<p>9. Give a rough estimate of angle a:</p>	
<p>10. How many squares can you see?</p>	

SECONDARY SCHOOLS ANNUAL EXAMINATIONS 2000

Educational Assessment Unit - Education Division

FORM 1

MATHEMATICS (Main Paper)

TIME: 1 h 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 _____

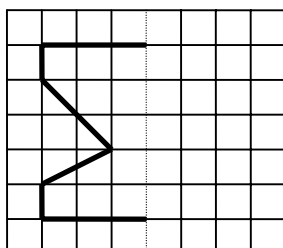
CALCULATORS ARE NOT ALLOWED

ANSWER ALL QUESTIONS.

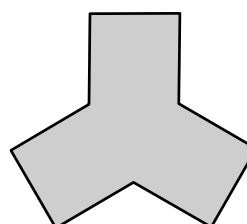
1a)
$$\begin{array}{r} 17.31 \\ - 8.19 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 9 \overline{) 345} \\ \hline \end{array}$$

- c) The broken line is the line of symmetry. Complete the shape

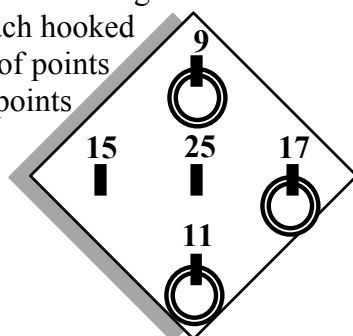


- d) How many lines of symmetry are there in the shape?

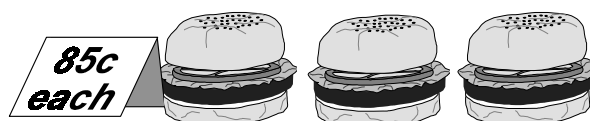


_____ 4 marks

- 2a) Three rings were thrown at the ring board shown in the figure. Each hooked ring scores the number of points above it. Find the total points scored.



- b) Find the total cost of these burgers.



_____ 4 marks

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

- b) Write in order of size smallest first $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{8}$: _____, _____, _____.

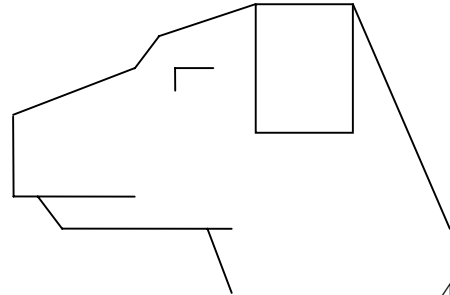
_____ 4 marks

- 4a) Put + or – in each space so that the calculation is correct. $7 \square 4 \square 2 \square 1 = 6$.
- b) The value of the digit 9 in 293 is _____.
- c) The number that comes next after 1999 is _____.
- d) $\frac{4}{7}$ of 42g is _____ grams.

4 marks

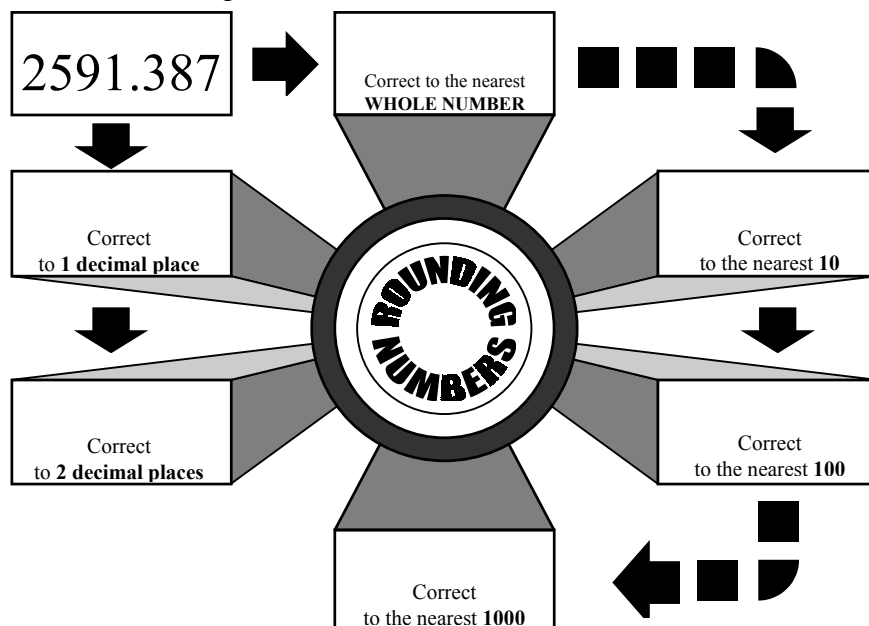
5. **Mark** on the picture:

- an **acute angle** and name it *a*;
- a **right angle** and name it *b*;
- a **reflex angle** and name it *c*;
- a pair of **parallel lines**;



4 marks

6. Write 2591.387 in the spaces as indicated.

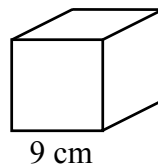


6 marks

7a) Fill in the following table:

	Faces	Edges	Vertices
A cube has:			

b)



Find the volume of this cube.

6 marks

8a) Find the value of x in: $x - 37 = 41$

b) Use the function machine to complete the table:

x

$\div 5$

$+2$

y

x	5	15	25
y			

c) Complete the function machine:

x

-2

y

x	3	4	5
y	7	10	13

6 marks

9a) Each unit in the grid represents 1 cm.

Draw the net of this cuboid.

2 cm

2 cm

3 cm

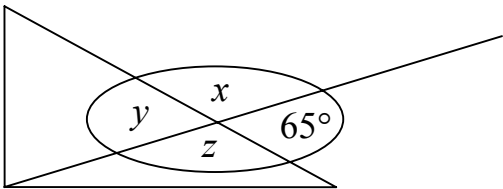
b) Find the total area of the net.

6 marks

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10a) Find the value of the angles marked x , y , and z .



- b) Angles x and y are called **V** _____ **O** _____ angles.
- c) Angle x is called an **O** _____ angle.

6 marks

11. The students in a class were asked to say which was their favourite dessert from cake (**C**), ice-cream (**I**) and fruit salad (**F**). The following is the data obtained:

C	F	F	C	I	I
F	C	C	I	I	C
I	I	F	I	C	I

- a) Complete the frequency table:
- b) Use the frequency table to draw and label a bar chart.

Dessert	Tally	Frequency
C		
I		
F		

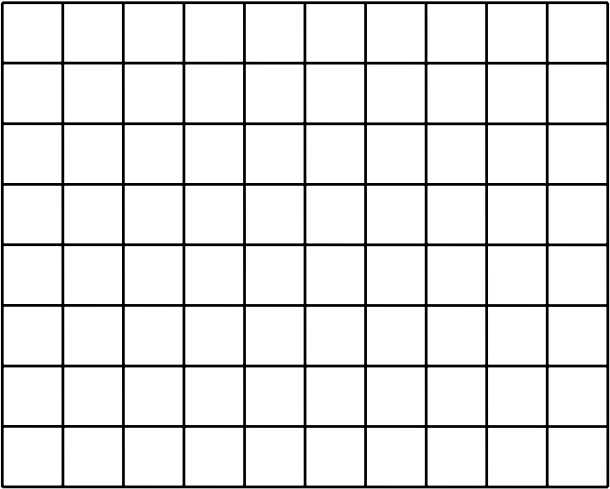
8 marks

12a) Plot the points: **A**(2, 2) **B**(8, 2)
C(8, 6) **D**(2, 6)

Join the points **A**, **B**, **C** and **D**.

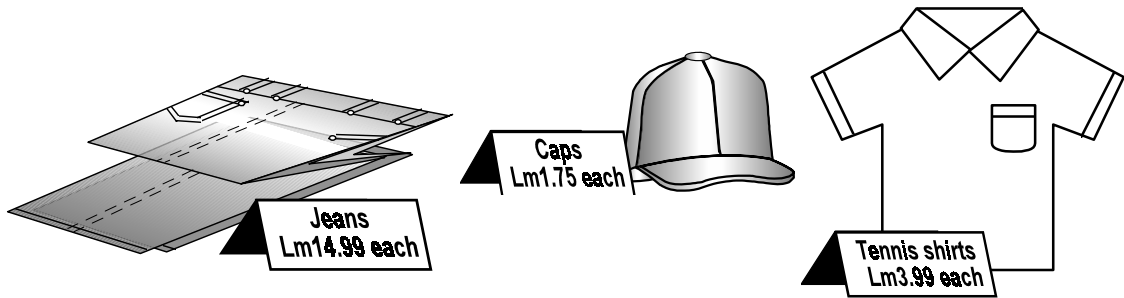
- b) The name of the shape formed is:

- c) Join points **A** to **C** and **B** to **D**.
 Mark the point where the line **AC** cuts the line **BD** by **M**.
- The co-ordinates of **M** are (,)



8 marks

13.



I saved Lm24 from my pocket money. In a shop window I saw the items above.

- a) Find the cost of one pair of jeans, 2 tennis shirts and a cap.

- b) What items can I buy for Lm20.73?

Do I have enough money to buy all these items?

☐

8 marks

- 14a) Draw a circle of radius 4 cm.
In it inscribe an equilateral triangle.
Name the triangle PQR.

- b) Each side is _____ cm long.

- c) Angle P is _____ degrees.

8 marks

15. The picture shows a school time-table .

a) How long is one lesson?

b) At what time does school finish?

c) How long is it from the start of the first lesson to the end of the last lesson?

d) How many minutes of **break** are there in all?

DAY TIME-TABLE

08:30	Lesson 1
09:15	Lesson 2
10:00	Lesson 3
10:45	Morning Break
11:00	Lesson 4
11:45	lesson 5
12:30	Lunch Break
13:00	Lesson 6
13:45	Lesson 7

8 marks

END OF PAPER