

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2007

Educational Assessment Unit - Education Division

FORM 2

MATHEMATICS – Scheme D

TIME: 30 minutes

(NON-CALCULATOR PAPER)

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	TOTAL
Mark															

DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

INSTRUCTIONS TO CANDIDATES

- **Answer all questions.**
- **This paper carries 20 marks.**
- **Calculators and protractors are not allowed.**

1. Fill in:

56 51, 46, 36, 31.

(1 mark)

2. Paul wants to buy a game costing Lm12.50 and a CD costing Lm5.
How much money does he need?



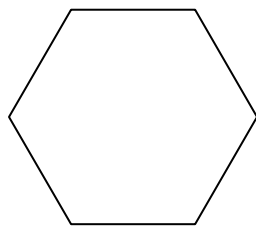
(1 mark)

3. Which fraction below is **NOT** the same as $\frac{3}{5}$?

(A) $\frac{21}{35}$ (B) $\frac{6}{10}$ (C) $\frac{4}{6}$ (D) $\frac{30}{50}$

(1 mark)

4. How many lines of symmetry does the shape have?



_____ lines

(2 marks)

5. How many months are there in $\frac{1}{4}$ of a year?

_____ months

(2 marks)

6. Round Lm3.71 to the nearest Lm.

Lm _____

(1 mark)

7. Give the **mean** of the following numbers.

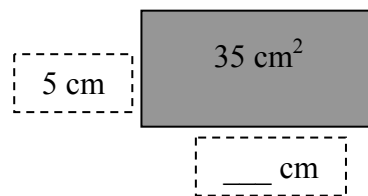
25 20 5 9 11

(2 marks)

8. (a) $4 \times (2 + 5) =$ _____ (b) $(8 \div 2) - 3 =$ _____

(2 marks)

9. The area of the rectangle is 35 cm^2 . One side is 5 cm. What is the length of the other side?



(1 mark)

10. What is the value of the digit **5** in the number 23.56 ?

(five tens, five tenths, 5 units, five hundreds) _____

(1 mark)

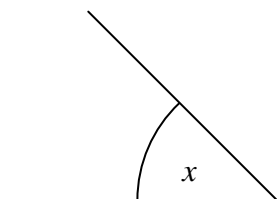
11. Work out :

$$1.34 \text{ m} \times 10 = \text{_____ m}$$

(1 mark)

12. Angle x is about :

- (a) 45° (b) 80° (c) 20° (d) 140°



_____ $^\circ$

(1 mark)

13. Write the **multiples of 3** from the list below:

18	20	24	40	56
----	----	----	----	----

(2 marks)

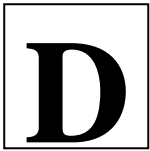
14. Write again, in order of size, starting with the **smallest**:

13	1.35	0.9	10.8
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0.9			
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(2 marks)

END OF PAPER



SECONDARY SCHOOL ANNUAL EXAMINATIONS 2007

Educational Assessment Unit - Education Division

FORM 2

MATHEMATICS - Scheme D
(MAIN PAPER)

TIME: 1h 30min

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Main	Non- Calc	Global Mark
Mark																		

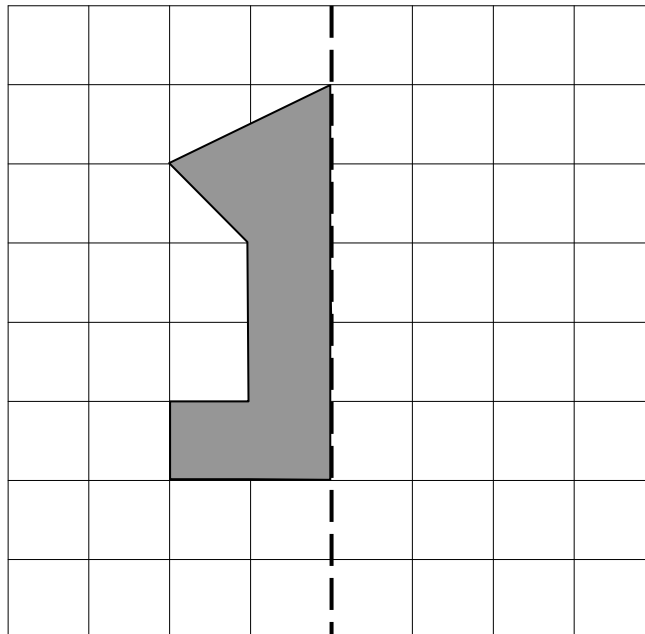
DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

- Answer all questions.
- This paper carries 80 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. Complete the shape so that the dotted line is the line of symmetry.



(2 marks)

2. (a) Write the number **three thousand four hundred and five** in figures. _____

(b) Write the number 4 056 in words.

(4 marks)

3. Work out the following:

(a) $\frac{7.52 \times 3}{4} =$ _____

(b) $2\frac{7}{9} - \frac{2}{9} =$ _____

(4 marks)

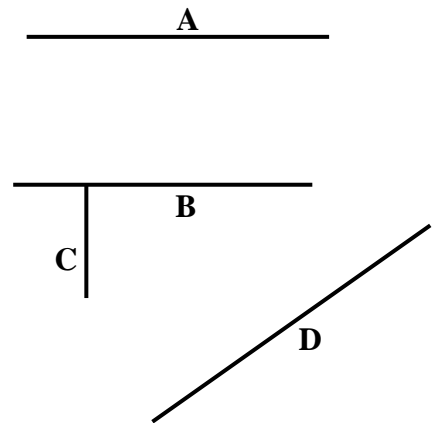
4. (a) Fill in with a letter. (A, B, C, D)

(i) Line _____ is slanting.

(ii) Lines _____ and _____ are parallel.

(iii) Line _____ is perpendicular to line _____.

(iv) Line _____ is vertical.



(b) Use a ruler to measure.

(i) Line A = _____ cm

(ii) Line C = _____ mm

(c) Draw a straight line of length 10.5 cm.

(d) Draw a straight line of length 70 mm.

(10 marks)

D

5. (a) Put these values correctly on the thermometer.

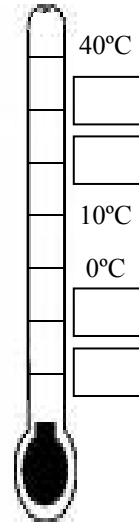
-20°C 30°C -10°C 20°C

(b) Circle the **higher** temperature in each case.
The first one is done for you.

20°C and 30°C

-20°C and 0°C

-20°C and -10°C

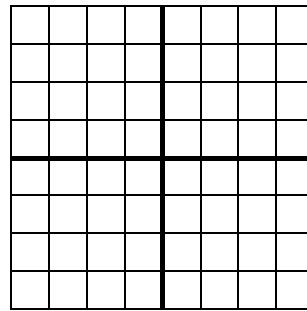


(6 marks)

6. (a) Shade $\frac{3}{4}$ of the squares.

(b) What is $\frac{3}{4}$ of Lm64 ?

Lm _____



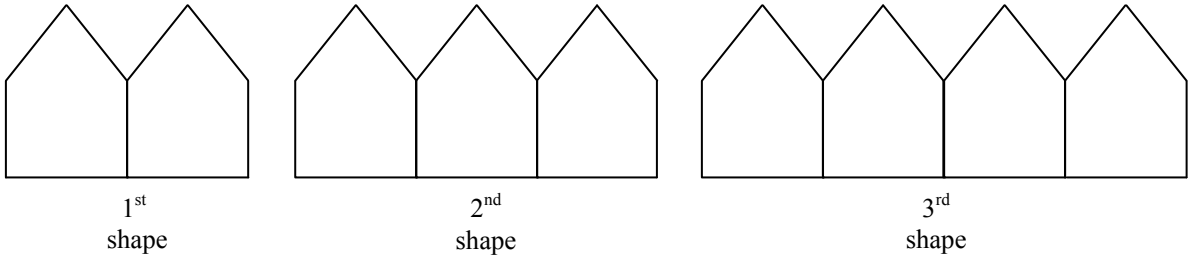
(c) Write $\frac{3}{4}$ as a decimal.

(d) Put the fractions in order, **largest** first.

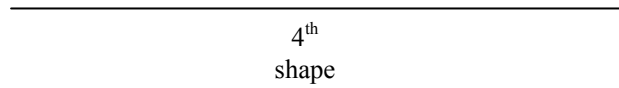
$\frac{1}{8}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{1}$

(5 marks)

7. These shapes are made of sticks.



(a) Draw the 4th shape in the pattern.

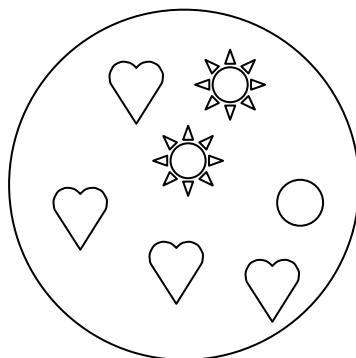


(b) **Without** drawing, complete the table.

	1 st shape	2 nd shape	3 rd shape	4 th shape	5 th shape	6 th shape		9 th shape
Number of sticks	9							

(8 marks)

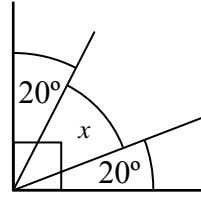
8. Write the probability of choosing a from the shapes below.



(2 marks)

D

9. (a) Work out the value of x . (Do not use a protractor.)

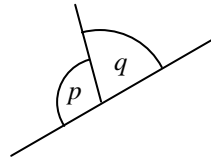


$x = \underline{\hspace{2cm}}^\circ$

(b) Complete:

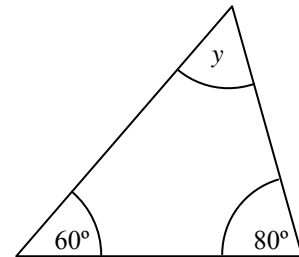
angle p + angle $q = \underline{\hspace{2cm}}$.

(90° , 100° , 180° , 360°)

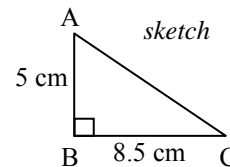


(c) Without measuring, find the size of y .

$y = \underline{\hspace{2cm}}^\circ$



(d) (i) Draw triangle ABC using ruler and protractor.



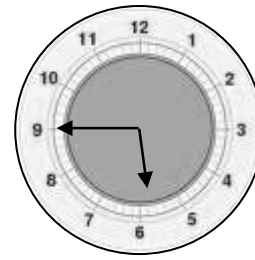
(ii) Measure side AC.

AC = $\underline{\hspace{2cm}}$ cm

(10 marks)

10. (a) Tick the correct time. ✓

Six o' clock	<input type="checkbox"/>
Quarter to six	<input type="checkbox"/>
Half past nine	<input type="checkbox"/>
Quarter past six	<input type="checkbox"/>



(b) Write, in figures, the time shown on the clock face.

(c) Write 5.00 p.m. using 24-hour time.

(d) Look at the calendar to answer the questions below.

March 2007

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

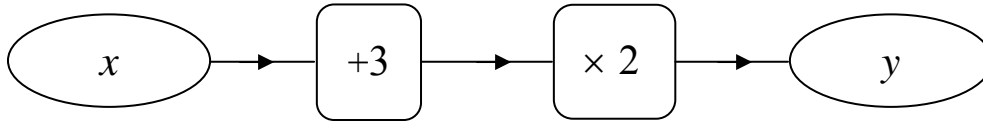
(i) St Joseph's feast is held on the 19th March.
What day of the week was it? _____

(ii) What was the **date** of the last Friday in **March**? ____/____/____.

(iii) What day of the week was the last day of **February**? _____

(6 marks)

11.



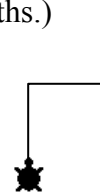
Use the function machine to complete the table below.

Input x	1	2	3	4
Output y	8		12	

(2 marks)

12. (a) Mark wants to draw the diagram using LOGO. (The lines are of equal lengths.)
Fill in his last two commands. (The turtle is at the starting point.)

PD FD 50 RT 90 FD 50 _____



- (b) Anna writes the following commands in Logo.

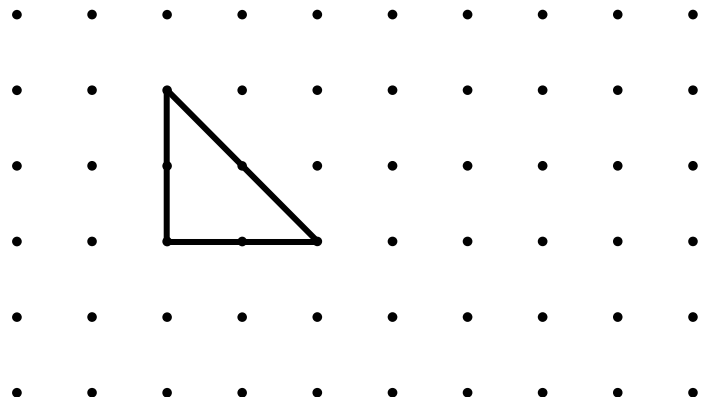
PD BK 200 RT 90 FD 100



Draw her shape, starting from the turtle.

(5 marks)

13. (a) The shape shown is a _____
(square, triangle, rectangle, cube)

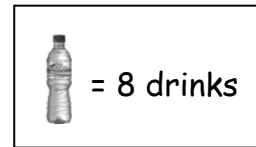


- (b) Draw 6 more similar shapes to show that it tessellates.

(4 marks)

14. The tuck shop sold drinks between 12:30 and 13:10.

The pictogram shows the drinks sold every 10 minutes during break.



12:30-12:40									
12:40-12:50									
12:50-13:00									
13:00-13:10									

(a) What does the symbol mean? _____.

(b) How many drinks were sold between 12:40 and 12:50? _____ drinks

(c) During which 10 minutes were **most** drinks sold?

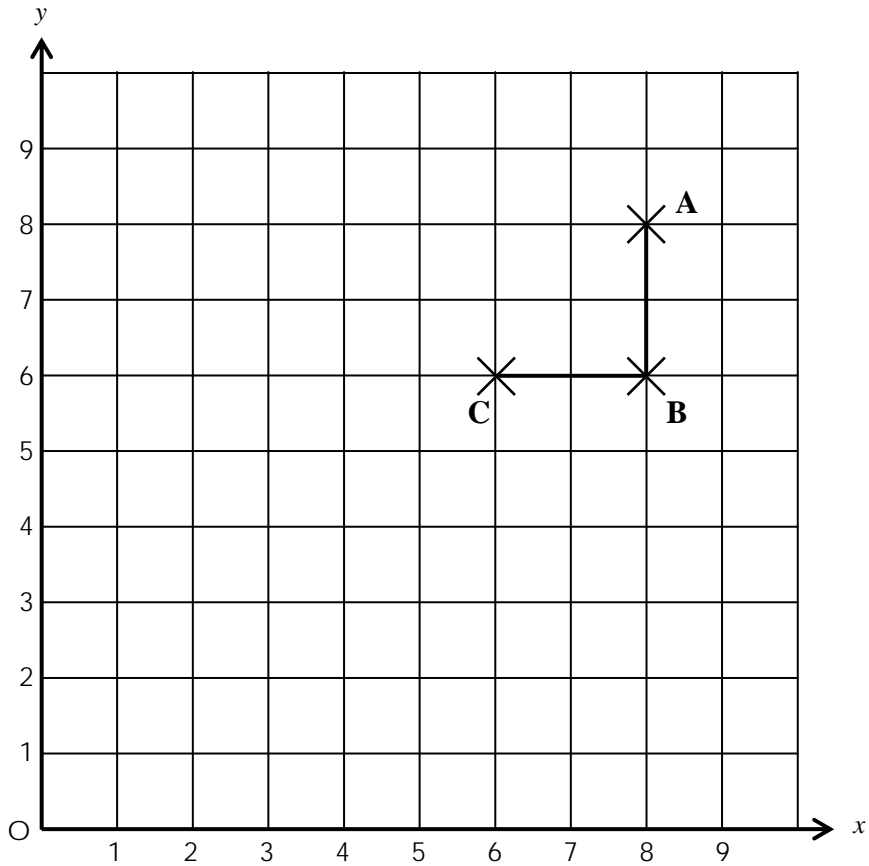
Between _____ : _____ and _____ : _____.

(d) How many **more** drinks were sold during the **third** 10 minutes than the **last** 10 minutes?

_____ drinks.

(6 marks)

15.



- (a) The co-ordinates of point B are (__ , __).
- (b) Plot and label point D (6 , 8) .
- (c) Join C to D to A to form a shape.
The shape ABCD is a _____. (rectangle, square, rhombus, kite)
- (d) Translate the shape ABCD $\left(\begin{array}{l} 5 \text{ left} \\ 4 \text{ down} \end{array} \right)$

(6 marks)

END OF PAPER