

SECONDARY SCHOOLS ANNUAL EXAMINATIONS 2007

Educational Assessment Unit – Education Division

FORM 1

**MATHEMATICS – Scheme B
(Non-Calculator Paper)**

TIME: 45 minutes

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

DO NOT WRITE ABOVE THIS LINE

Name : _____

Class : _____

INSTRUCTIONS TO CANDIDATES

- **Answer all questions.**
 - **This paper carries 40 marks.**
 - **Calculators and protractors are not allowed.**
-

1. Work out :

$$\begin{array}{r} 2 3 5 5 \\ + 5 1 7 6 3 \\ \hline \\ \hline \end{array}$$

(b) 84×2000

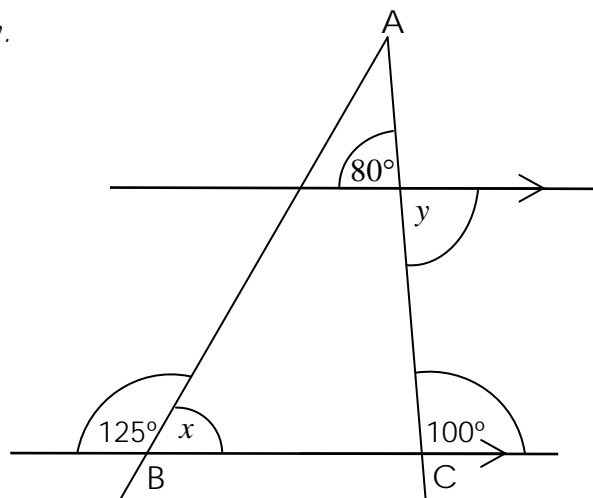
(c) 20% of Lm640

Lm _____
(4 marks)

2. Find the size of the angles marked x and y .

$x =$ _____ $^{\circ}$

$y =$ _____ $^{\circ}$



(4 marks)

3. John has a piece of wire **2.5 m** long. He cuts off two pieces, each **35 cm** long.
What is the length of wire left?

_____ cm

(4 marks)

4. Work out:

(a) $16.45 \div 7 =$ _____

(b) $0.69 \div 0.03 =$ _____

(3 marks)

9. A bus trip is 1 hour 5 minutes long.
The bus leaves at 11.55 a.m. At what time does it **arrive**?



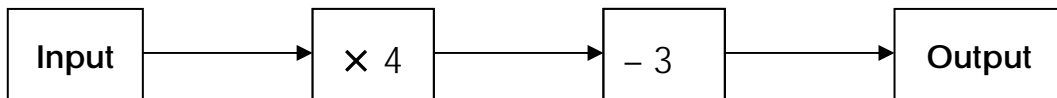
(3 marks)

10. Work out and simplify:

$$\frac{1}{8} + \frac{3}{8} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

(2 marks)

11. This is a number (function) machine:



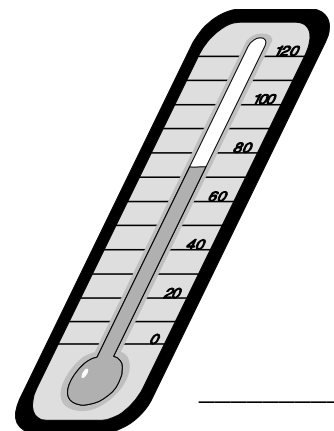
What is the **Output** when the **Input** is 5?

(3 marks)

12. (a) Work out:

$$-6 - (-10) = \underline{\hspace{2cm}}$$

- (b) On Monday the temperature in Oslo was -15°C .
On Friday the temperature was -9°C .
By how much did the temperature **rise**?



_____ $^{\circ}\text{C}$

(4 marks)

END OF PAPER



SECONDARY SCHOOLS ANNUAL EXAMINATIONS 2007

Educational Assessment Unit – Education Division

FORM 1

MATHEMATICS – SCHEME B
(MAIN PAPER)

Time: 1h 15min

Question	1	2	3	4	5	6	7	8	9	10	11	Paper 2	Paper 1	Global Mark
Mark														

DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

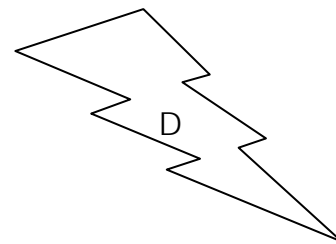
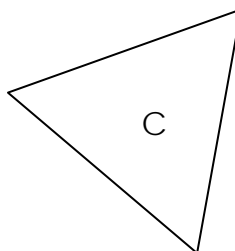
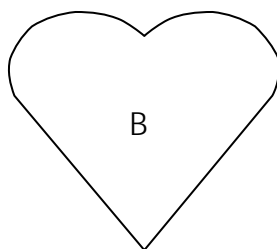
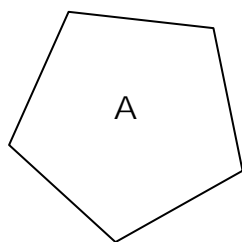
- Answer all questions.
- This Paper carries 60 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. Put these numbers in order of size, starting from the **smallest**:

3.4, 34, 3.39, 3.33, 3.399

(3 marks)

2.



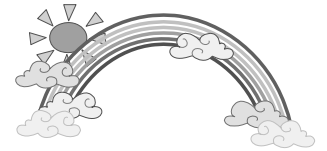
Which of these shapes:

- (a) has **only** 1 line of symmetry?
- (b) has rotational symmetry of **order** 3?
- (c) has **no** line of symmetry?

(3 marks)

3. Use these words to describe each of the events below:

Certain Likely Unlikely Impossible



(a) The weather on August 15th 2007 will be sunny. _____

(b) Christmas 2007 will be on December 27th. _____

(c) January 1st will be a school holiday. _____

(d) There will be 8 days in the second week of May. _____

(4 marks)

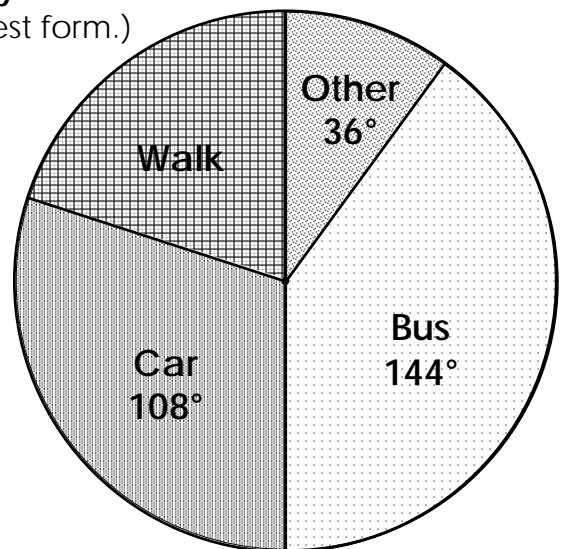
4. The pie-chart shows how a group of 400 students travel to school each day.

(a) Complete:

Type of Travel	Bus	Car	Walk	Other
Angle	144°	108°		36°

(b) How many of the students go to school **by bus**?
(Give the answer as a **fraction** in its simplest form.)

By **Bus** = $\frac{\square}{\square}$



(c) How many students go to school **by car**?

By **Car** =

(8 marks)

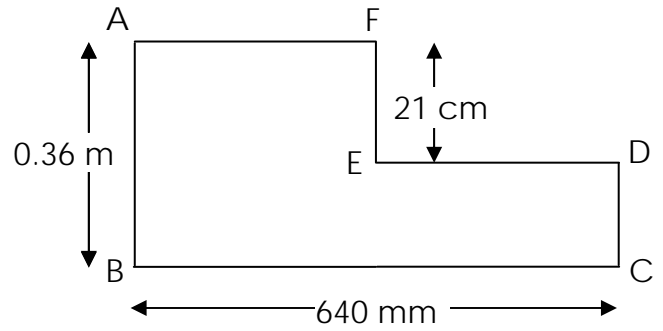
B

5. (a) Express 640 mm in **metres**.

_____ m

(b) Express 21 cm in **metres**.

_____ m



In the figure, $AF = ED$.

(c) What is the length of AF in **metres**?

_____ m

(d) What is the **area** of the whole shape ABCDEF in m^2 ?
Give your answer correct to 2 d.p.

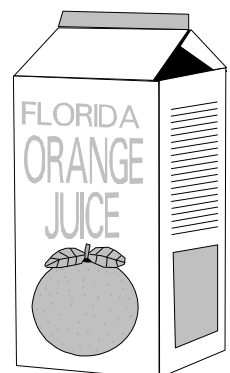
_____ m^2

(6 marks)

6. a) Write these quantities in order of size, **smallest first**:

750 ml 0.8 litre 1.7 litre 1500 ml
_____ _____ _____ _____.

b) A carton holds 2.5 litres of orange juice. Sandra pours the juice into glasses **each** holding 150 ml.
How many **full** glasses can she fill?



(6 marks)

7. May wants to draw a rectangle using **LOGO**.
 The **perimeter** of the rectangle is 360 turtle steps.
 a) What is the **width** in turtle steps?



_____steps

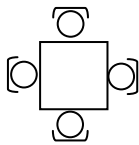
- b) Complete the following **LOGO** instructions to draw the rectangle:

PD

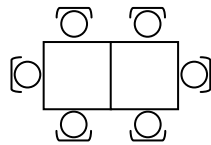
REPEAT ____ [FD ____ RT 90 FD ____ RT 90]

(6 marks)

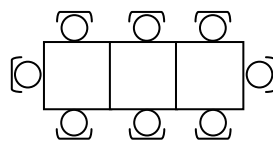
8.



Pattern 1



Pattern 2



Pattern 3

Pattern 4

The figure shows people seated at tables at a restaurant.

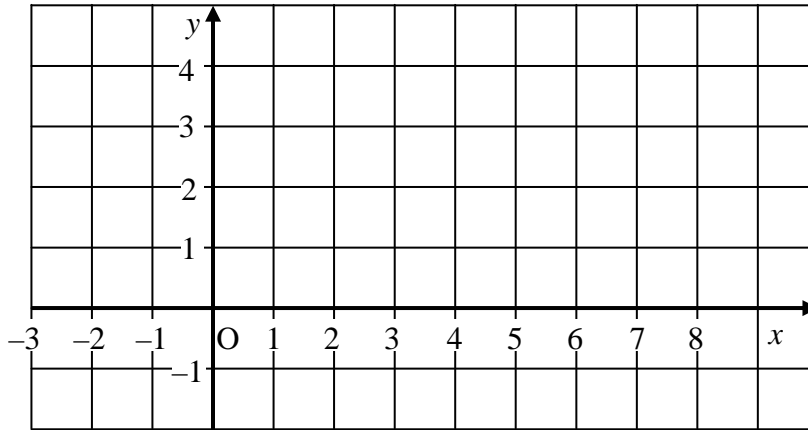
- a) **Draw** the next pattern.
 b) Use the above figure to **complete** the table.

No. of tables	1	2	3	4
No. of people				

- c) How many people will there be when there are 6 tables?

(6 marks)

9.



- a) Plot these points:
A : (-2, -1); **B**: (4, -1); **D** : (0, 3).
- b) Join AB and AD.
- c) Plot the point C so that ABCD is a **parallelogram**.
- d) Write down the co-ordinates of point **C**.

c: (____, ____)

(7 marks)

10. a) John is 12 years old and Mary is 8 years old.
i) Express the **ratio** of their ages in its **simplest** form.

John : Mary = ____ : ____

- ii) What will be the **ratio** of their ages in **eight years'** time?

John : Mary = ____ : ____

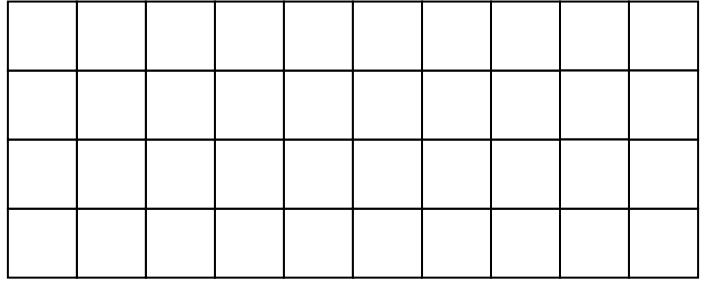
- b) The picture shows a pen drawn to a **scale** 1: 3. What is the **real** length of the pen?



_____cm

(7 marks)

11. a) **Shade** 20% of the shape.



b) These cookies **contain** 16% fat.
What **weight** of fat is used per packet of cookies?



_____ g

(4 marks)

END OF PAPER