SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Educational Assessment Unit



TIME: 45 minutes

FORM 1

MATHEMATICS – SCHEME B (Non-Calculator Paper)

1	2	3	4	5	6	7	8	9	10	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.

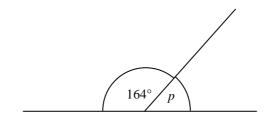
1. Work out:

d)
$$\frac{38.85}{100} =$$

____(4 marks)

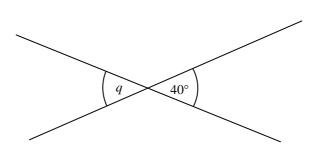
2. Calculate the marked angles shown below:

a)

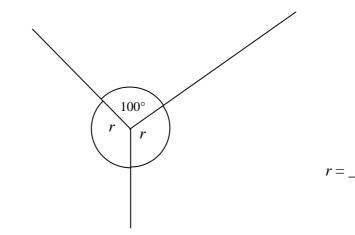


$$p =$$

b)



c)



____ (4 marks)

Name : _____

Class : _____

B

3. Simplify: a) p + p + p =

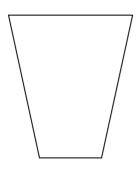
b)
$$4c + 3c =$$

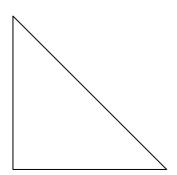
c)
$$5x - 3x =$$

d)
$$y + 6 - 2 =$$

_____(4 marks)

4. a) Draw the line of symmetry of each of these shapes:

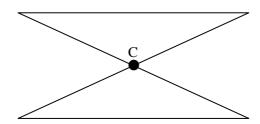




b) Write 3 capital letters which have at least one line of symmetry. (An example has been done for you.)

<u>A</u> , ____ , ____ , ___

c) What is the order of rotational symmetry, about C, of the given shape?



Ans_____ (6 marks)

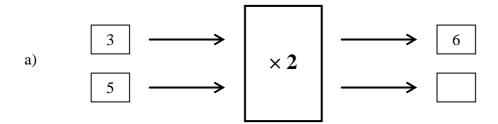
5. a) How many minutes pass when the minute hand i	makes:	
i) a quarter turn?	Ans	1
ii) 2 full turns?	Ans	
b) It takes me 35 minutes to walk from home to sch at 8.15a.m. At what time must I leave home so		ne?
	Ans	(4 marks)
6. Find the value of: a) $3b$ when $b = 5$,		
	Ans	
b) $t - 2$ when $t = 10$,		
	Ans	
c) ab when $a = -3$ and $b = 8$,		
	Ans	
d) x^2 when $x = 3$.		
	Ans	
		(4 marks)
7. a) (i) Round 269 to the nearest 100.	Ans	
(ii) Round 483 to the nearest 10.	Ans	
b) (i) How many centimetres are there in 2 m?	Ans	
(ii) How many metres are there in 550 cm?	Ans	

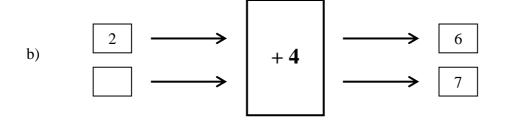
_(4 marks)

(4 marks) 9. Mr Gatt has a sack of potatoes. This weighs 150 kg. He packs the potatoes into 5-kilogram bags. a) How many bags does he fill? Ans a) _____ b) He sells all the bags for €1.50 each. How much money does he get? Ans b)_____ _(3 marks)

8. Write down the name of each of the following figures:

10. Complete the number machines below:





c)
$$\boxed{6} \longrightarrow \boxed{3} \longrightarrow \boxed{5}$$

_____ (3 marks)

END OF PAPER

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008

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FORM 1

MATHEMATICS – SCHEME B

TIME: 1h 15min

(Main Paper)

1	2	2	3	4	5	6	7	8	9	10	11	12	Total Main	Non Calculator	GLOBAL MARK

DO NOT WRITE ABOVE THIS LINE

Name:	Class:
1 diff.	Class

INSTRUCTIONS TO CANDIDATES

- Answer all questions.
- This paper carries 60 marks.
- Calculators and mathematical instruments are allowed.
- 1. a) I share 4 apples equally among 3 children. How much will each child get?
 - b) Calculate i) $\frac{1}{3}$ of 15.75 kg
 - ii) $\frac{3}{4}$ of $\in 100$
 - 4

c) Work out:

- $\frac{2}{5} + \frac{1}{5}$
 - $_{ii)} \frac{2}{3} \times \frac{3}{7}$

Ans_____

Ans____

Ans_____

Ans____

Ans_____

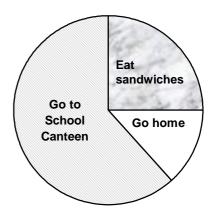
(5 marks)

- 2. This pie chart shows how the students of a class have lunch during mid-day break.
 - a) Write down the largest slice of the pie chart.

Ans_____

b) Write down the fraction of the class that has sandwiches.

Ans	
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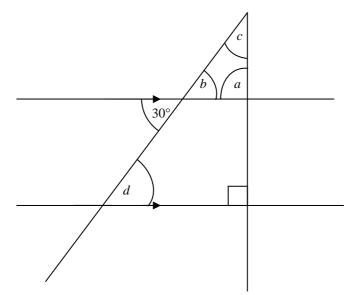


c) Eight pupils in the class have sandwiches. Write down the number of pupils in the class.

A no		
Ans		

______(4 marks)

3. Find the value of the angles marked with the letters. Give a reason for each answer.



a =

Reason

b =

Reason_

c =

Reason____

d = °

Reason_

______ (8 marks

Name :		Class :	
4. Write down i) a factor of 1	5.	Ans	$ \mathbf{R} $
ii) a multiple o	of 4 less than 20.	Ans	
iii) a prime nur	mber greater than 10.	Ans	
iv) the square r	root of 25.	Ans	
v) the value of	the digit 3 in the number 2379.	Ans	(5 marks)
5. a) Use your compasses to d	draw a circle of radius 4 cm.		
b) Label the centre of the c	ircle, O.		
	a radius. Label this radius, OA. a diameter. Label this diameter BC	OC.	
d) What is the length of the	e diameter BOC?	Ans_	
			(5 marks)
6. A pencil case contains 15 pencil is removed at rando Calculate the probability the		6 blue, 2 red and 1 green	i. One
a) black	Ans		
b) green or red	Ans	NGA BORE OF	CAPORE
c) yellow	Ans	RAFFLES Hore	ZAFFLES
			(3 marks)

7. a)	Write down	the tempera	tures in ϵ	order of	size, colo	lest first:
1. a)	WIIIC GOWII	the tempera	uures m (Jiuci Oi	SIZC, COIC	icst mst.

− 1 °C,

7 °C,

−4 °C,

10 °C,

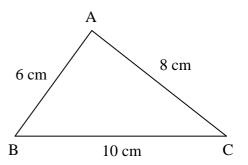
-2 °C



b) One day, the temperature in Finland was 6 °C. That night the temperature measured – 8 °C. What was the difference between the day and night temperatures?

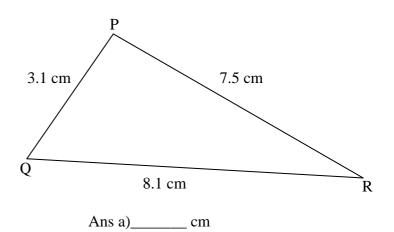
Ans	
	(5 marks)

- 8. a) Use a pair of compasses and a ruler to construct the triangle ABC shown below.
 - b) Use your protractor to measure angle A.



Ans b)

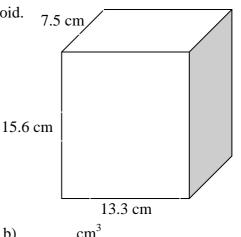
9. a) Calculate the perimeter of triangle PQR.



b) The diagram shows a container that has the form of a cuboid. It is 15.6 cm high, 13.3 cm wide and 7.5 cm deep.

Calculate its volume.

Give your answer correct to the **nearest whole number**.



Ans b)_____ cm³ ____ (5 marks)

10. Look at the grid.

a) How many squares are there in the grid?

Ans

b) How many squares are shaded?

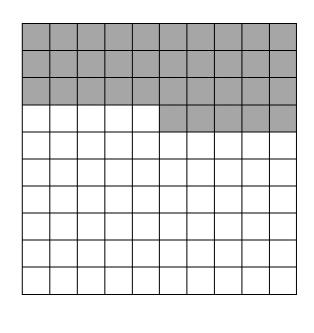
Ans____

c) What percentage of the grid is shaded?

Ans_____

d) What fraction of the grid is **not** shaded?

Ans_____

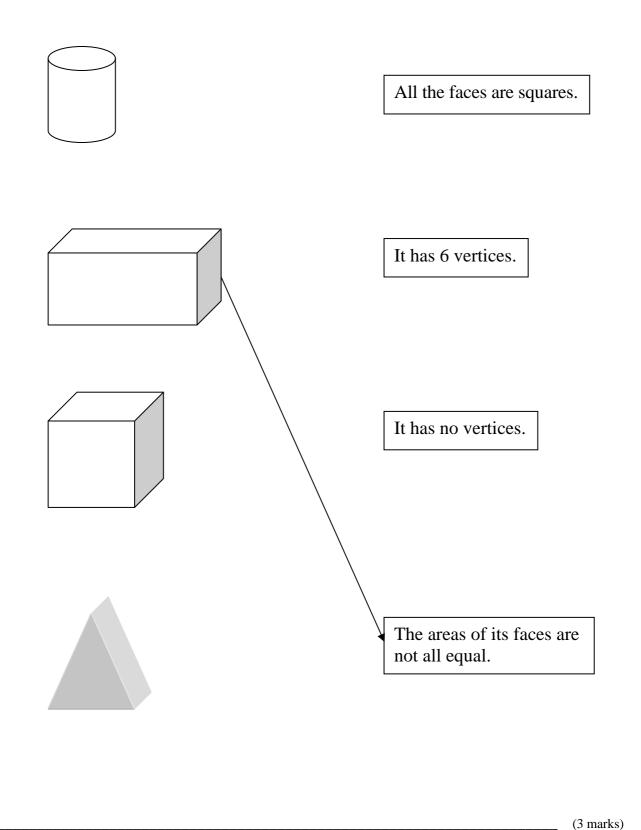


e) Shade 10% of the grid.

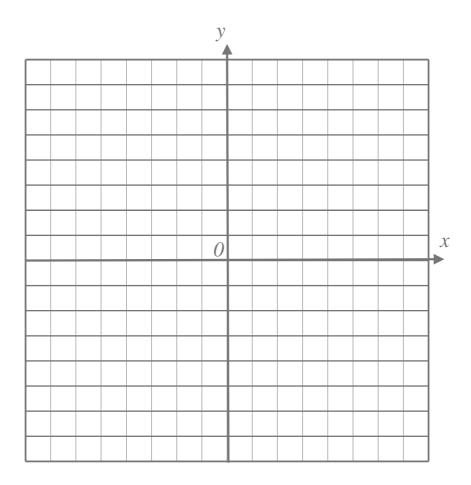
_ (5 marks)

11. Draw lines to match each solid to the correct property.

One of them has been done for you.



- 12. a) On the graph below, plot the points A (3, 6), B (1, 1) and C (5, 1).
 - b) Join A to B, B to C and C to A to form the triangle ABC.



- c) Reflect triangle ABC in the y axis. Label the new triangle, PQR.
- d) Now reflect triangle ABC in the x axis. Label the new triangle, XYZ.

______ (6 marks)

END OF PAPER