SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008



DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Educational Assessment Unit

FORM 3MATHEMATICS – Scheme D
(NON-CALCULATOR PAPER)TIME 30 min

Name:_____

Class_____

,		Mark	

INSTRUCTIONS TO CANDIDATES

- Answer all questions. There are 10 questions.
- This paper carries 30 marks.
- Calculators and protractors are not allowed

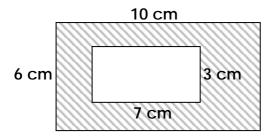
1. Work out:

(a) €6·24 + €3·59

	Ans €
(b) €10 · 86 – €4 · 02	
	Ans €
	(2 marks)
2. Fill in with the correct number.	
(a) 13 + = 20	(c) 6 × = 48
(b)9 = 23	(d) 2100g =kg
	(4 marks)
3. Work out	
(a) 2 × (20 – 5) =	
(b) 8 – 18 =	(2 marks)
4. Complete the sequence: 1.5 , 2.0	0 , 2·5 , 3·0 ,
	(1 mark)

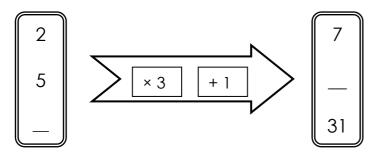
5. Complete this bill: 2 Pizzas =€ SANDY'S Take Away Price List 5 Tuna Sandwiches = € €1.00 Pizza =€ 4 Chicken Pies Tuna Sandwich €0.80 Chicken Pie €1 · 50 10 Apple Pies =€ Apple Pie €0.50 TOTAL € (3 marks) 6. Underline the **prime** number: 4, 7, 9, 15. (1 mark)

7. Calculate the shaded area in cm².

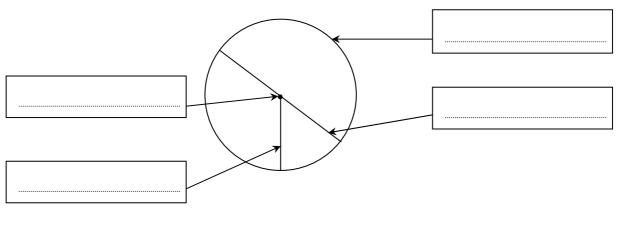


Ans____cm² (4 marks)

8. Fill in the blanks to complete this number machine.

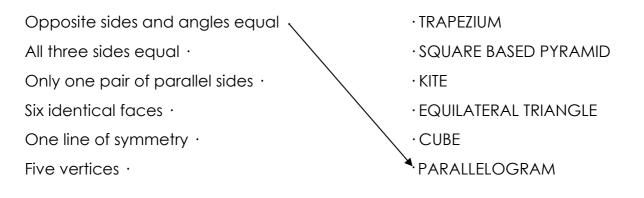


9. Fill in with the words: <u>diameter</u> , <u>radius</u> , <u>centre</u> and <u>circumference</u>.





10. Use arrows to match. The first one is ready.



(5 marks)

D

Class

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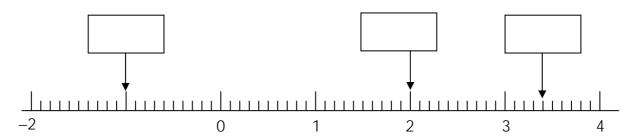
FORM 3	MATHEMATICS – Scheme D	TIME 1 hour 30 min
	(MAIN PAPER)	

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

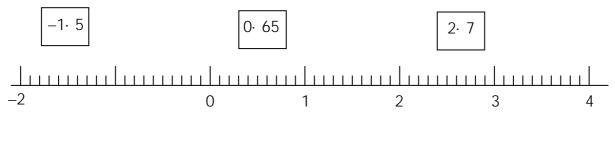
Calculators are allowed but all necessary working must be shown.

Name_

1. (a) Fill each empty box with the correct value.



(b) Use arrows to show the position of the numbers in the boxes.



(6 marks)

(c) Give your answer to (b) correct to 1 decimal place. Ans (5 marks) There are 240 people in a hall. 50% are women, 15% are men and the rest 3. are children. (a) What percentage are children? Ans____% (b) How many children are there? Ans_ (4 marks)

2. (a) Work out a rough estimate for: $9 \cdot 7 \times 5 \cdot 1 =$

(b) Use your calculator to find the exact value of: 9. 7×5.1

4. Complete the following table.

	Fraction	Decimal	Percentage
e.g.	$\frac{1}{4}$	0 · 25	25%
	$\frac{1}{5}$		
		0.75	
			50%

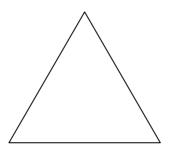
(6 marks)

Ans_____

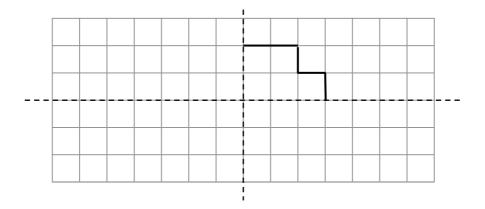
Nam	eClas	SS	(\mathbf{D})
5.	(a) Simplify $3x + 6y + 4x - 2y$		
	(b) Solve the equation: $7 + x = 13$	Ans	
	(c) Find the value of $3x + 2$ when $x = 4$	Ans x =_	
		Ans	
			(6 marks)
6.	40° 40° 150°		
	(a) What is the size of the angle marked a?		
	(b) What is the size of the angle marked <i>b</i> ?	Ans a -	=0
		Ans b =	• (4 marks)

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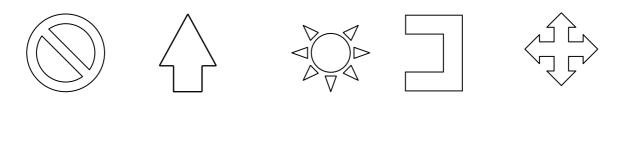
7. (a) Draw the **lines of symmetry**.



(b)Complete the shape to make it symmetrical about the dotted lines.



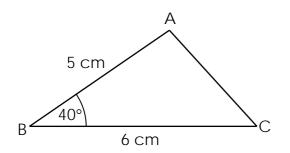
(c)Look at the shapes below. Tick(✓) the ones that have **rotational** symmetry.



(7 marks)

8. (a) Use a ruler, a protractor and compasses to draw the triangle on the line below. Point B is given.

B



(b) From your drawing, measure angle A.

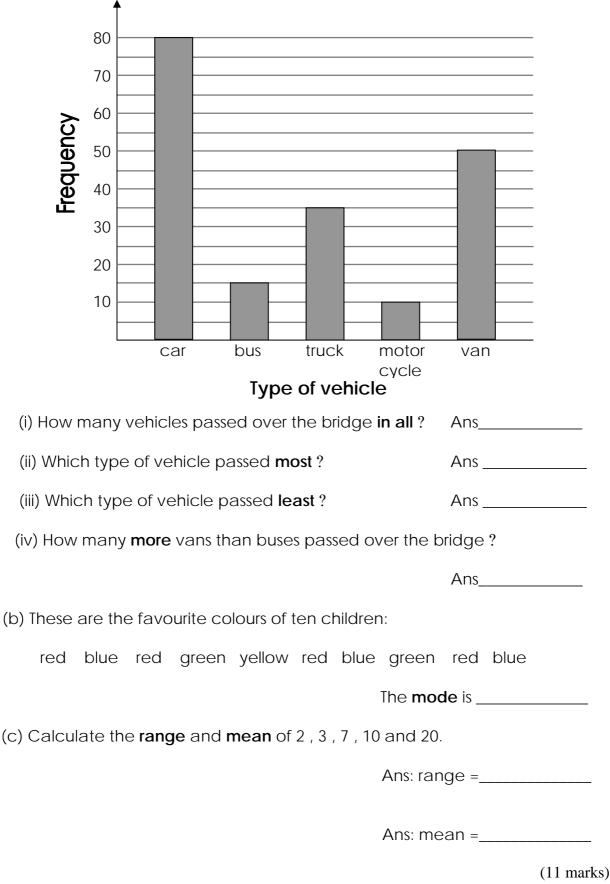
∠A = ____°

(4 marks)

9. Add three more similar L shapes to show that it can tessellate.

(2 marks)

10. (a) The bar chart shows the number of different types of vehicles that passed over a bridge.



11. Jeremy always follows the timetable below.

Wakes up	07 : 00
Washes	07 : 30
Eats breakfast	08 : 00
Starts work	08 : 30
Has lunch	13 : 00
Bathes	19 : 00
Watches TV	21 : 45
Goes to sleep	23 : 00

(a) What is Jeremy doing at 8 am ?	Ans
(b) Where is Jeremy at half past eight ?	Ans
(c) At what time does Jeremy go to bed ?	Ans
(d) Does Jeremy have lunch in the morning or in the afternoon ?	Ans
(e) Write true or false . Jeremy watches more than 2 hours of TV.	Ans
(f) Calculate the number of hours that Jeremy spends slee	eping.
	Anshours.

(7 marks)

- 12. (a) Plot the points A(1, 1); B(9, 5); C(8, 0) and D(1, 7).
 - (b) Join A to B. Join C to D.
 - (c) Write the coordinates of the point where the two lines meet. Ans (,)

