KULLEĠĠ SAN BENEDITTU

Boys Secondary School, Kirkop

Levels 5–7

HALF-YEARLY EXAMINATIONS – FEBRUARY 2014

FORM 1 **MATHEMATICS Levels 5-7** **TIME: 1hr 30 mins**

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Main	NC	Global Mark
Max. Mark	2	3	8	5	2	6	3	3	4	6	7	4	4	4	7	7	75	25	100
Mark																			

DO NOT WRITE ABOVE THIS LINE

NAME AND SURNAME: _____ CLASS: _____

INSTRUCTIONS TO CANDIDATES:

Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. (a) Write the number **5,072** in words

_____

_____

(b) Write the following number in figures:

Sixty thousand, one hundred and seven = _____

(2 marks)

2. (a) What is the value of **5** in the number 3**5**4,967? _____

(b) What is the value of **8** in the number 26.**8**9? _____

(c) Which of the numbers **0.07** and **0.7** has the **greater** value? _____

(3 marks)

3. Round the following numbers:

	To the nearest 10	**To the nearest 100**	**To the nearest 1000**
7245	7250		
10,933			
28,526			

(8 marks)

4. 1 kg of oranges costs €1.50 and 1 kg of pears costs €2.60.

(a) Ms Galea buys 2 kg of oranges and 1½ kg of pears. Find the total cost.

€_____

(b) Ms Galea has €10 in her purse. Can she also buy 1 kg of apples costing €2.50? Explain.

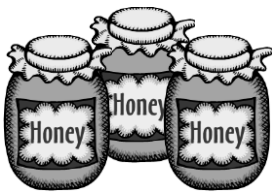
_____

_____

_____

(5 marks)

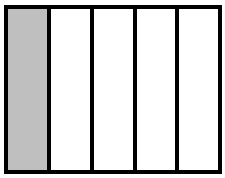
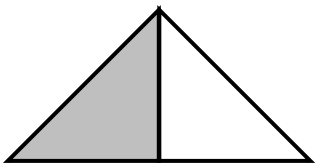
5. Our neighbourhood shop has an offer of €14.49 for 3 jars of honey. How much does 1 jar cost?



€_____

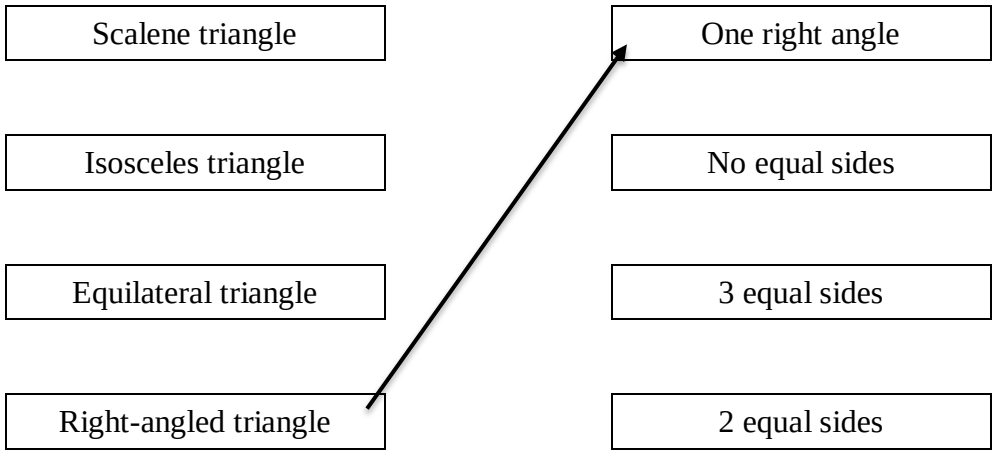
(2 marks)

6. Fill in the following table:

Shape	Write the fraction shaded	Underline the correct type of fraction
	$\frac{\square}{\square}$	Half, Third, Quarter, Fifth
	$\frac{\square}{\square}$	Half, Third, Quarter, Fifth
	$\frac{\square}{\square}$	Half, Third, Quarter, Fifth

(6 marks)

7. (a) Match each triangle with its description



(3 marks)

8. These are the marks that Isaac got on five tests:

5, 7, 8, 10, 5

(a) Work out the mean.

Answer: _____

(b) Find the mode. Answer: _____

(3 marks)

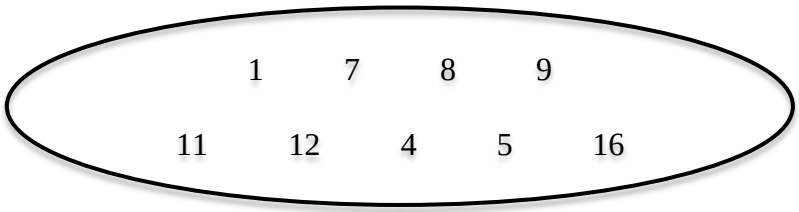
9. (a) Work out the size of the radius of a circle which has a **diameter** 8 cm long.

Radius = _____ cm

(b) Draw the circle that has a radius 5 cm long.

(4 marks)

10.



From the above list, find:

(a) 2 even numbers _____, _____

(b) 2 odd numbers _____, _____

(c) 2 multiples of 4 _____, _____

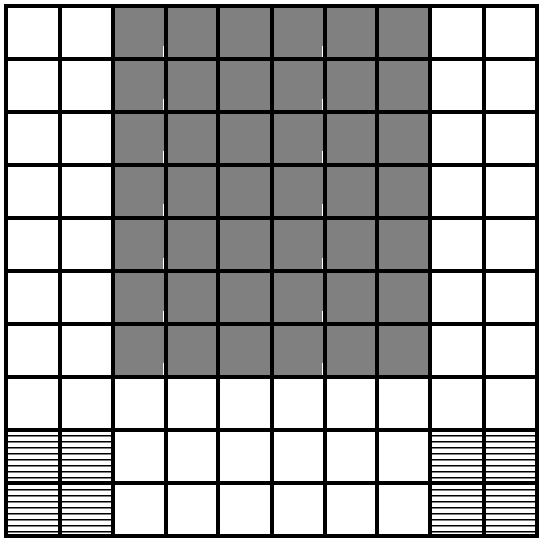
(d) 2 factors of 40 _____, _____

(e) 1 square number _____

(f) the **smallest** prime number. _____

(6 marks)

11.



(a) What fraction is:

(i) shaded black? $\frac{\square}{100} = \frac{\square}{50}$

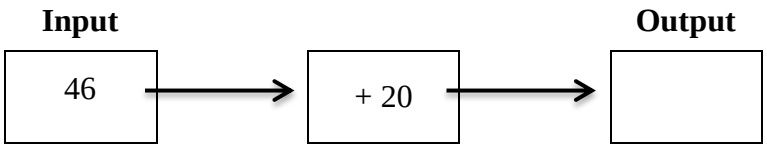
(ii) striped? (simplify your answer completely) $\frac{\square}{100} = \frac{\square}{\square}$

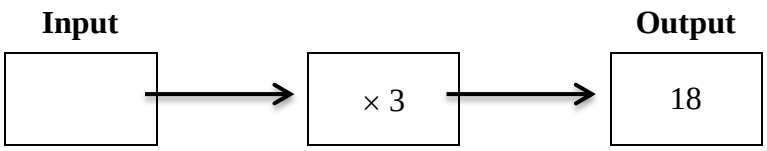
(b) What percentage is white?

$\frac{\square}{\square}$ = _____%

(7 marks)

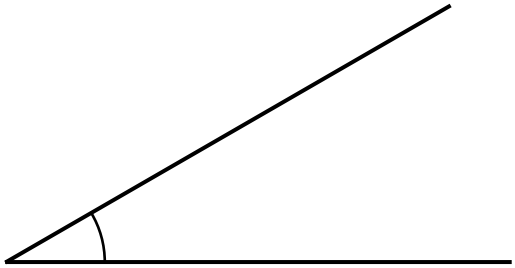
12. Complete the following number machines

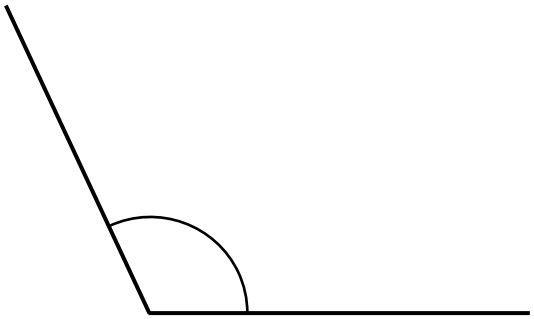




(4 marks)

13. (a) Measure the following angles:





_____ °

_____ °

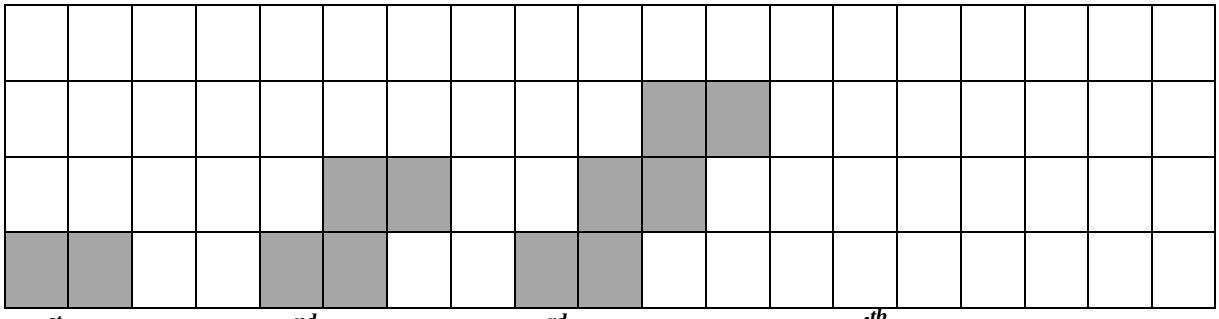
(b) Draw the following angles:

(i) 45°

(ii) 170°

(4 marks)

14.



1st stage ***2nd stage*** ***3rd stage*** ***4th stage***

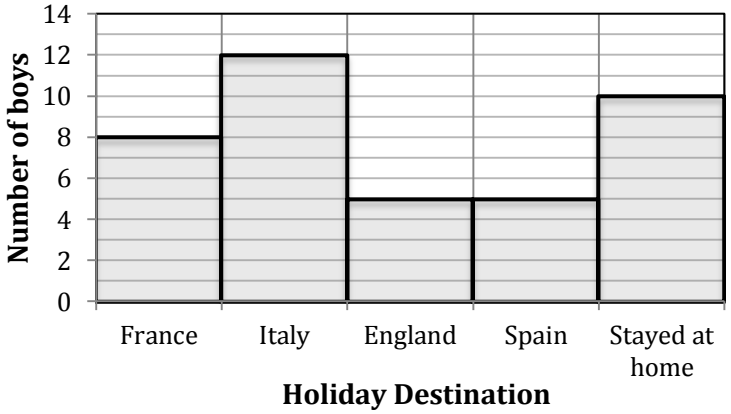
(a) Shade in the 4th stage.

(b) Complete the following table for the given pattern.

Stage	1	2	3	4	5		8
Number of bricks	2	4	6				

(4 marks)

15. The bar chart below shows where the children in one group spent their summer holidays.



(a) Fill in the table using information from the bar chart:

Holiday Destination	Number of boys
France	
Italy	
England	
Spain	
Stayed at home	

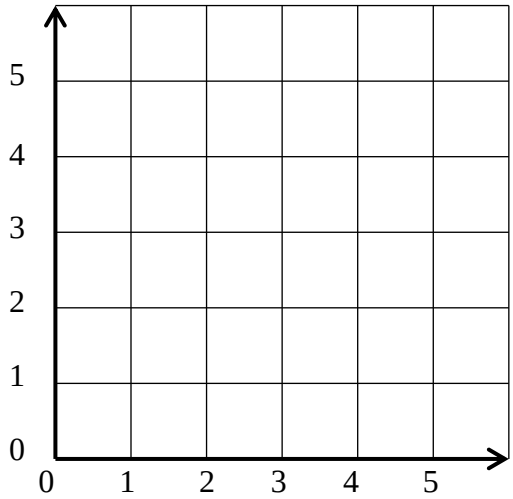
(b) Which was the most popular destination? _____

(c) How many children were in the group?

_____ children

(7 marks)

16. (a) Plot and label the points **A (2, 2), B (2, 4), D (4, 2)**



(b) Join A to B, B to D, D to A.

(c) What type of shape have you drawn? _____

(d) Plot point C to change the shape to the square ABCD.

(e) Write down the co-ordinates of the point C. C = (_____, _____)

(7 marks)