

KULLEGG SAN BENEDITTU Secondary School, Kirkop

Mark

HALF YEARLY EXAMINATION – 2016/2017

Levels 5-7

YEAR 8

MATHEMATICS

TIME: 30 mins

Non Calculator Paper

Question	1	2	3	4	5	6	7	8	9	NC
Max. Mark	2	3	3	3	2	2	2	5	3	25
Mark										

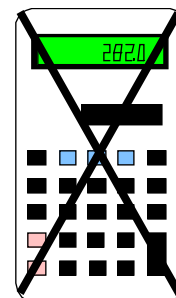
DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

Instructions to Candidates

- Answer all questions.
- This paper carries a total of 25 marks.
- Calculators and protractors are NOT ALLOWED.






































1. **Work out:**


a) $-2 - 7 =$ _____

b) $-15 + 8 =$ _____

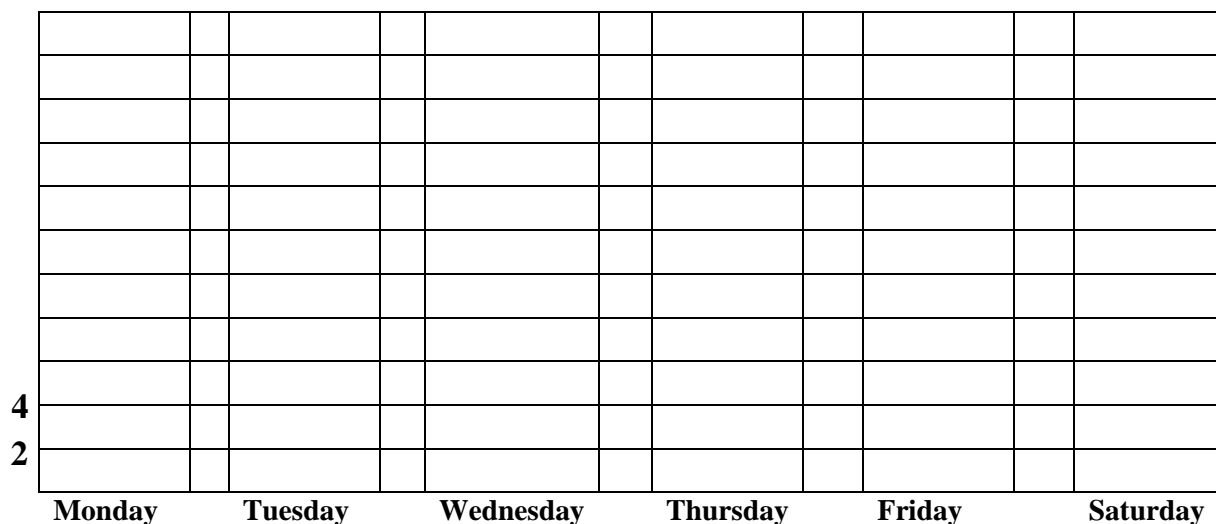
(2 marks)

2.

Day	Number of apples sold
Monday	     
Tuesday	  
Wednesday	      
Thursday	 
Friday	     
Saturday	          

Key:  = 2 apples

Complete the **bar chart** below by writing numbers and drawing bars to show the information in the pictogram above.



(3 marks)

3. **Match** the following:

Multiple of 10	81
Prime Number	4990
Square Number	31
Cube Number	8

(3 marks)

4. Lauren sends 9 invitations for her party.

The cost of 1 stamp is 26 cent.

Work out the **cost** of 9 stamps?



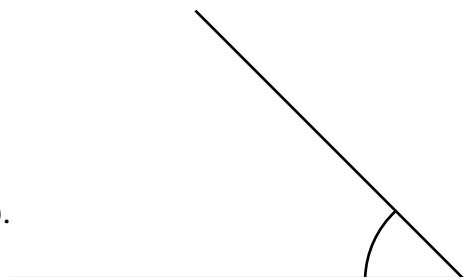
$$\begin{aligned}
 \boxed{26} \times \boxed{9} &= \left[\boxed{} + \boxed{6} \right] \times \boxed{9} \\
 &= \boxed{} + \boxed{54} \\
 &= \boxed{} \text{ cent} = \boxed{} \text{ €}
 \end{aligned}$$

(3 marks)

5. Underline the correct answer:

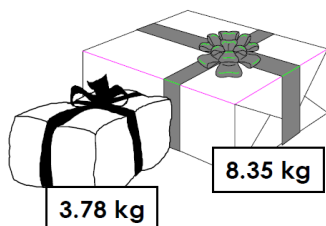
(a) This angle is (acute, right, obtuse, reflex).

(b) The size of the angle is (90° , 10° , 45° , 145°).



(2 marks)

6. Work out the **total weight** of the 2 parcels.



Ans: _____ kg

(2 marks)

7. Complete the **sequences**.

a) 50, 55, _____, 65, 70, _____

b) 9, 6, _____, 0, _____, -6

(2 marks)

8.



Aquarium Adventure

Adults €10

Children €6



- a) Complete this formula:

Total cost (€) = 10 × number of _____ + _____ × number of children

- b) i) What is the total cost for **2 adults and 3 children**?

Ans: € _____

- ii) Another **2 children are added**. What is the new total cost?

Ans = € _____

(5 marks)

9. 28 students in Year 8 do an assignment. These are their marks:

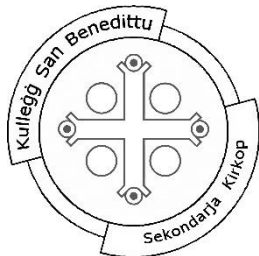
6 7 5 7 7 8 7 6 5 7 4 8 8 5
4 10 6 5 8 9 5 6 4 8 8 5 9 5

Write this information in the **frequency table** below.

Mark	Tally	Frequency
4		
5		
6		
7		
8		
9		2
10		

(3 marks)

END OF NON CALCULATOR PAPER



KULLEĠĠ SAN BENEDITTU

Secondary School, Kirkop

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HALF YEARLY EXAMINATION – 2016/2017

Levels 5-7

YEAR 8

MATHEMATICS

TIME: 1 hr 30 mins

Main Paper

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

DO NOT WRITE ABOVE THIS LINE

Name: _____

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) Fill in, using different numbers for each space:

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 32$$

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 32$$

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 32$$

(b) Write down all the **factors** of 32 in order of size, smallest first.


(5 marks)


2. Complete:


Fraction	Percentage	Decimal
	63 %	
		0.25

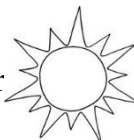
(4 marks)

3. **Match.** One is done for you.

a) The height of an aeroplane whilst flying.  -5

b) The temperature of a bag of frozen mushrooms  30 °C

c) The lift button for the fifth floor underground  10 km

d) The average temperature in Malta in summer  -12 °C

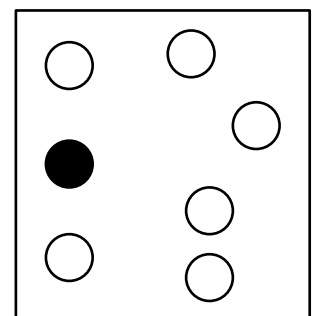
Note: An arrow points from the sun icon to the 30 °C box.

(3 marks)

4. In a box, there are black and white balls. Jake picks one ball.

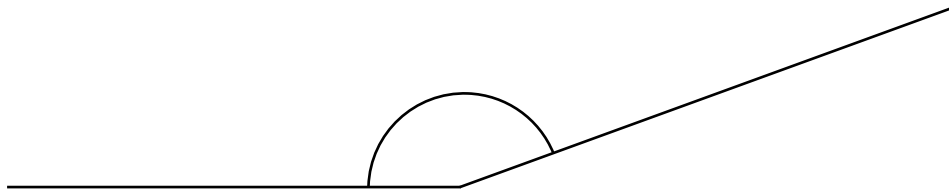
Fill in the blanks with **impossible**, **certain**, **unlikely** or **likely**.

Jake's ball is yellow	
Jake's ball is white	
Jake's ball is black	
Jake's ball is either black or white	



(4 marks)

5. (a) **Measure** the following angle.



o

- (b) **Draw** and **label** an angle of 35° in the space below.

(3 marks)

6. (a) Complete:

	Round to the:		
	nearest 10	nearest 100	nearest 1000
1340			1000
2785	2790		

- (b) Andy works out 2.64×4 on a calculator. The answer is:

10.56

Round this answer correct to the **nearest whole**. _____

(5 marks)

7.

$\frac{18}{20}$	$\frac{3}{5}$	$\frac{10}{20}$	$\frac{3}{4}$
-----------------	---------------	-----------------	---------------

(a) **Match** each fraction below with a fraction from the box above.

1	=	
2		

	=	15
		20

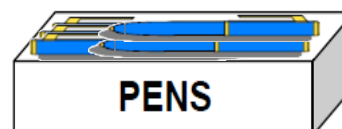
	=	12
		20

9	=	
10		

(b) Put the fractions in the box above in order, **largest first**.

(6 marks)

8. A box of pens weighs 339.8 grams.
The empty box **alone** weighs 20.6 grams.



a) Work out the **weight** of the pens.

Ans: _____ grams

b) There are 42 pens in the box.

Work out the **weight** of 1 pen.

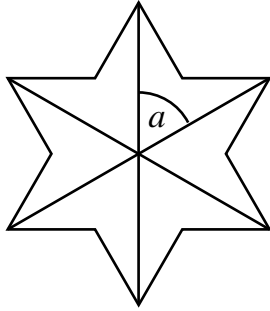
Ans: _____ grams

c) Work out the **weight** of 10 pens.

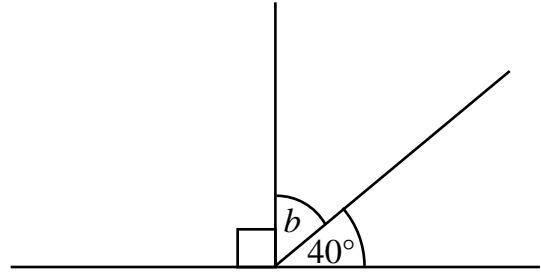
Ans: _____ grams

(6 marks)

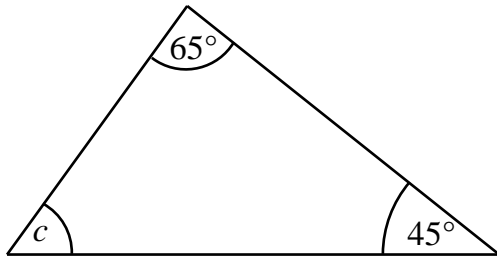
9. Calculate the value of each lettered **angle**.



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



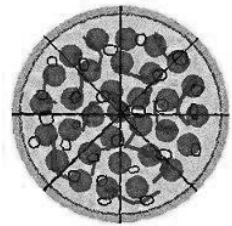
$$b = \underline{\hspace{2cm}}^{\circ}$$



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

(6 marks)

10. Eddie and Hannah cut a pizza into 8 equal slices.
Eddie eats $\frac{3}{8}$ of the pizza. Hannah eats $\frac{2}{8}$ of the pizza.



- (a) (i) What **fraction** of the pizza do they eat altogether?

Ans: $\underline{\hspace{2cm}}$

- (ii) What fraction of the pizza is left?

Ans: $\underline{\hspace{2cm}}$

- (b) There are 320 calories in the whole pizza.
How many **calories** are there in Eddie's pizza?

$\underline{\hspace{2cm}}$ calories
(6 marks)

11. These are the **ages** of a group of old people:

75, 90, 73, 66, 80, 92, 90, 90



a) Calculate the:

i) **Mean:**

Ans: _____

ii) **Mode:**

Ans: _____

iii) **Median:**

Ans: _____

b) Michael says that the **range** of the ages is 20 years. Is Michael right? Explain.

_____.

(8 marks)

12. Philip has €110. He spends 40% of the money on a pair of trousers and a shirt. How much does he **spend**?



Ans: € _____

(3 marks)

13. Draw the next **2 patterns** in this sequence:



(2 marks)

14.

$$y = 3a + 6b - 4c$$

Work out the value of y when $a = 2$, $b = 7$ and $c = 0$.

Ans: _____

(4 marks)

15. a) Put these measurements in order, starting from the **smallest**.

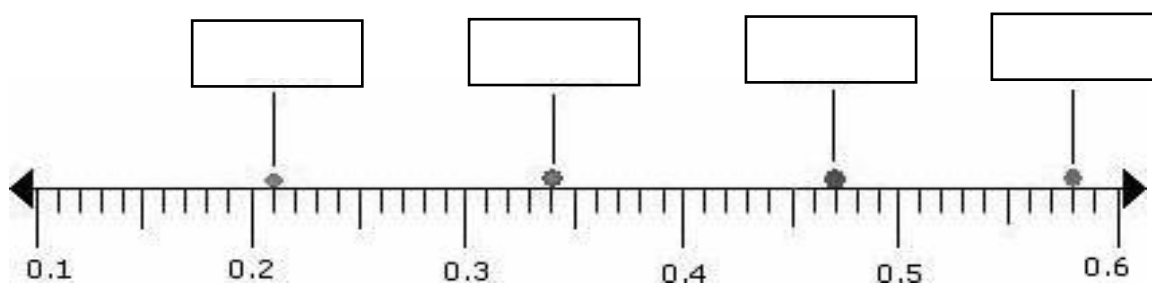
i) 26.23 kg, 23.34 kg, 32.439 kg, 33.01 kg, 26.2 kg

_____, _____, _____, _____, _____

ii) 2.03, 2.0, 2.333, 2.9, 2.99

_____, _____, _____, _____, _____

b) In the boxes below, write down the decimal number shown by the dot.



(10 marks)

END OF EXAM PAPER