

KULLEĠĠ SAN BENEDITTU
Boys Secondary School, Kirkop

D

HALF-YEARLY EXAMINATIONS – FEBRUARY 2012

FORM 3

MATHEMATICS Scheme D

TIME: 30 mins

Non Calculator Paper

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

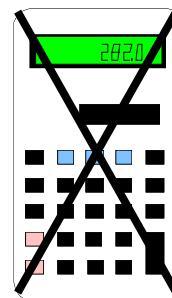
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NAME AND SURNAME: _____ **CLASS:** _____

INSTRUCTIONS TO CANDIDATES:

Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 25 marks.
- **Calculators, protractors** and other mathematical instruments are **NOT ALLOWED**.
- On your desk you should have nothing except for **pen, pencil, ruler** and the **examination paper**.



1. a) Write in figures: one thousand and forty six. _____

b) Write 3.956 correct to 2 decimal places. _____

(2 marks)

2. Work out the following money sums:

a) $6638 + 570$

b) $\text{€}20 - \text{€}16.45$

_____ € _____

c) 50% of €60

€ _____

(4 marks)

3. Work out the following:

a) $6.25 \times 100 =$ _____

b) $6.25 \div 100 =$ _____

(2 marks)

4. From the following list of numbers, choose the required number:

$\{ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 \}$

a) an even number _____

b) an odd number _____

c) a square number _____

d) a prime number _____

e) a factor of 20 _____

(5 marks)

5. Complete the following sequences:

a) 1, 4, 7, 10, _____, _____.

b) 1, 4, 9, 16, _____, _____.

c) 1.25, 1.5, 1.75, 2, _____, _____.

(5 marks)

6. Fill in the blanks:

$$\frac{1}{4} = \frac{\quad}{100} = \quad\%.$$

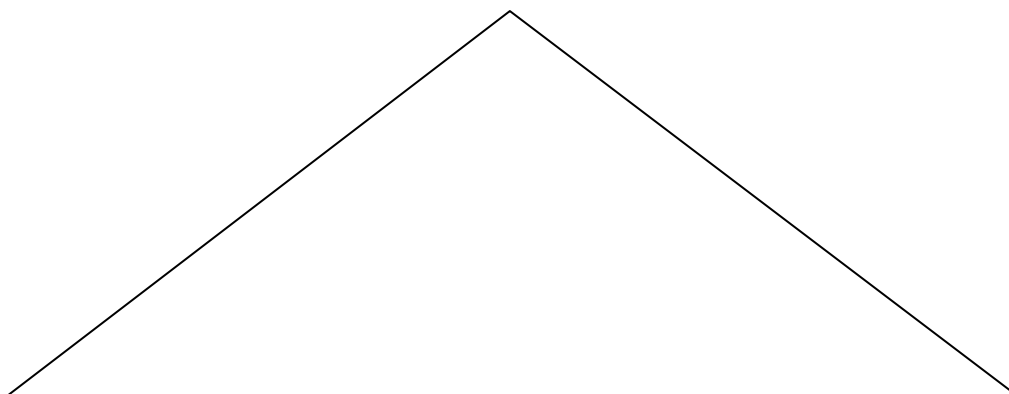
(2 marks)

7. Write any number between the two given numbers.

2.5 _____ 2.6

(1 mark)

8. Mark the **equal sides** and **equal angles** of this triangle:



(1 mark)

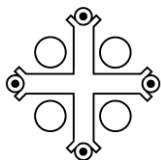
9. Work out:

a) $2 \times (3 + 5)$

b) $\frac{3}{5} + \frac{1}{5}$

(2 marks)

END OF PAPER



KULLEGĠ SAN BENEDITTU
Boys Secondary School, Kirkop

D

HALF-YEARLY EXAMINATIONS – FEBRUARY 2012

FORM 3

MATHEMATICS Scheme D

TIME: 1hr 30mins

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	Main	NC	Global Mark
Max. mark	7	8	4	8	9	7	3	12	7	10	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.

1a) Round 3949 to the nearest:

- i) ten \approx _____
- ii) hundred \approx _____

b) Convert the following units to metres:

- i) 250 cm = _____ m
- ii) 250 km = _____ m

c) Put in order, **smallest** first:

0.45 0.5 0.05 0.315

_____ _____ _____ _____

(7 marks)

2) Complete the following sequences:

a) 9, 11, 13, 15, ____, ____.

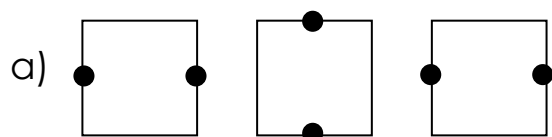
b) 1, 8, 27, ____, ____.

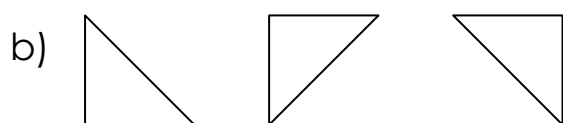
c) -6, -4, -2, ____, ____.

d) 1, 2, 4, 8, ____, ____.

(8 marks)

3) Draw the **next** shape in the pattern.





(4 marks)

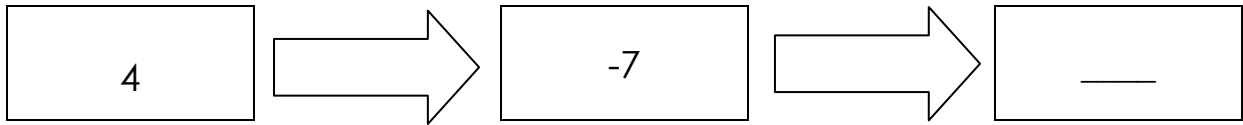
4) Fill in the blanks:

FRACTION	DECIMAL	PERCENTAGE
$\frac{1}{4}$	0.25	25%
$\frac{3}{4}$		
	0.2	
		30%
	0.45	

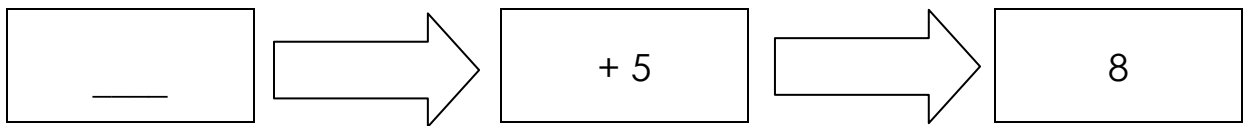
(8 marks)

5) Fill in the blanks:

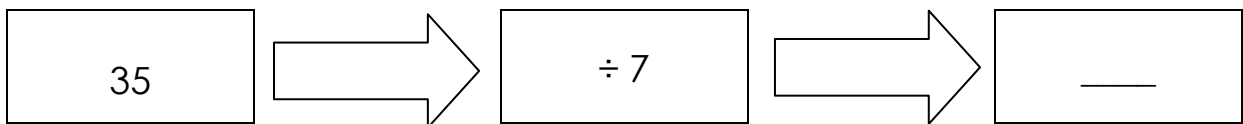
a)



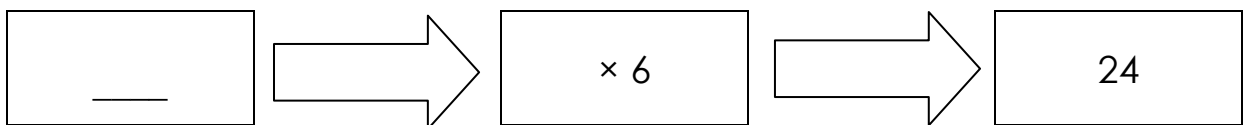
b)



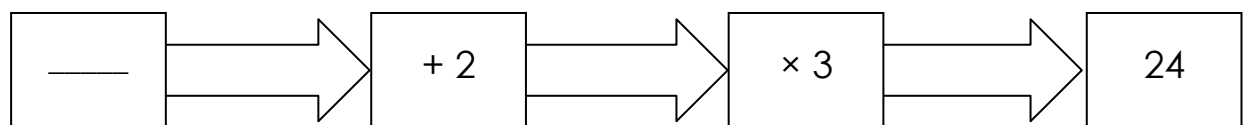
c)



d)

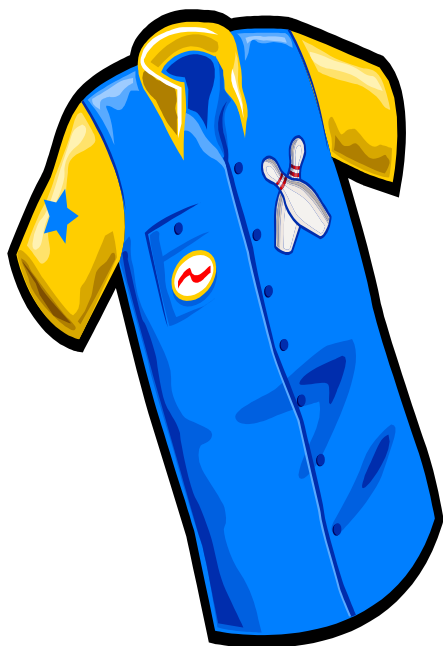


e)



(9 marks)

6)



a) A shirt costs €16. What is the cost of 5 shirts?

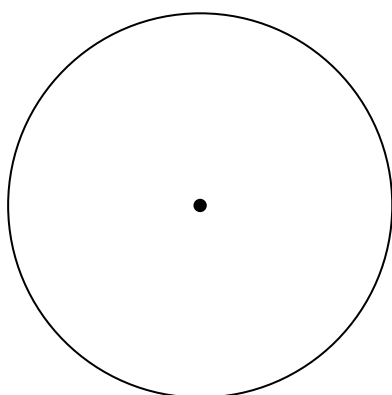
b) During a sale, all prices are reduced by 25%. Find:

i) the amount of money that I **save** on one shirt ?

ii) the sale price of one shirt.

(7 marks)

7)



a) On the circle below **draw** and **label** the **radius**

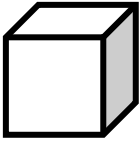
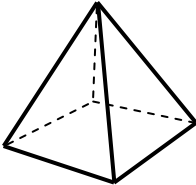

b) If the radius of a circle is 8 cm, find the length of the diameter.

_____cm

(3 marks)

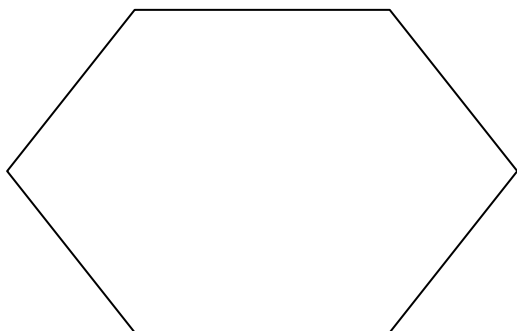
- 8) Fill in the **12** spaces of the following table.
Choose a name from the list below.

Cuboid cube cylinder pyramid sphere

Shape	Name	faces	edges	vertices
		6		
			8	
				0
	cone	2		

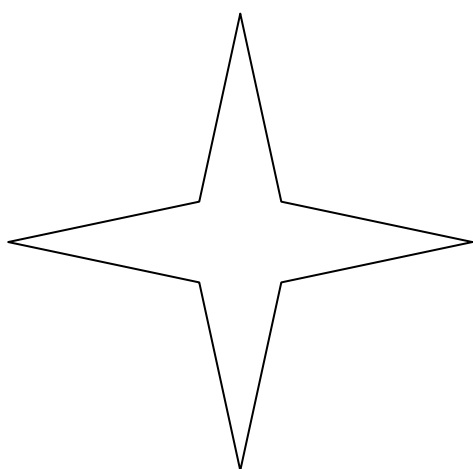
(12 marks)

9)

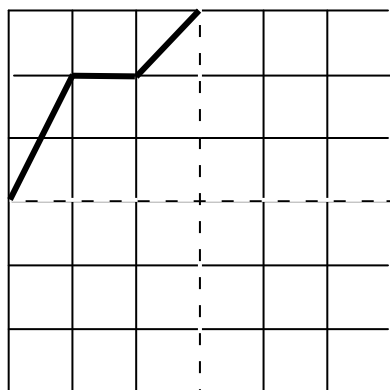


a i) What is the name of the shape?

ii) Draw the lines of symmetry of the shape.



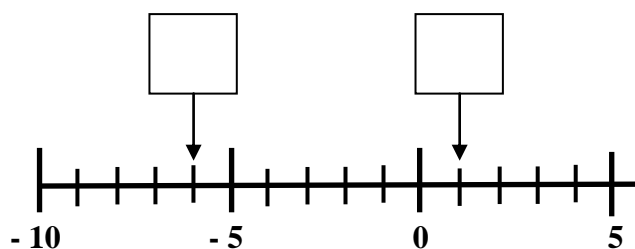
b) Shade $\frac{1}{4}$ of this shape.



c) Complete the shape to make **symmetrical** about the broken lines.

(7 marks)

10. a) Fill in the numbers in the 2 boxes shown on the number line.



b)



These temperatures were recorded in the city of Moscow on 1st February 2012 at different times of the day.

Time	Temperature in °C
midnight	- 7
5 a.m.	- 10
11 a.m.	1
4 p.m.	6
9 p.m.	- 2

Fill in:

- i) The **highest** temperature was _____°C
- ii) The **lowest** temperature was _____°C
- iii) The **difference** in temperature between **midnight** and **5 a.m.** was _____°C
- iv) The **difference** in temperature between **5 a.m.** and **4 p.m.** was _____°C
- v) At 11 p.m. the temperature has **fallen** by 4°C from the value recorded at 9 p.m.
The temperature at 11 p.m. was _____°C

(10 marks)