



*Gozo College
Boys Secondary School
Victoria - Gozo
Ninu Cremona Lyceum Complex
Half-Yearly Examinations 2011 - 2012*



**Form 4
Track 1**

**MATHEMATICS
Basic Skills**

Time: 30 min

Name: _____

Class: _____

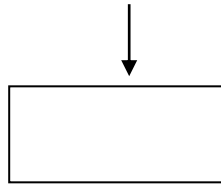
Paper 1
(Non-Calculator Paper)

Questions	1	2	3	4	5	6	7	8	9	10	Total
Mark											

INSTRUCTIONS TO CANDIDATES

- Answer all questions.
- This paper carries 20 marks.
- Calculators and mathematical instruments are not allowed.
- Show all necessary working.

1. Find the value of 6 in this number 4362



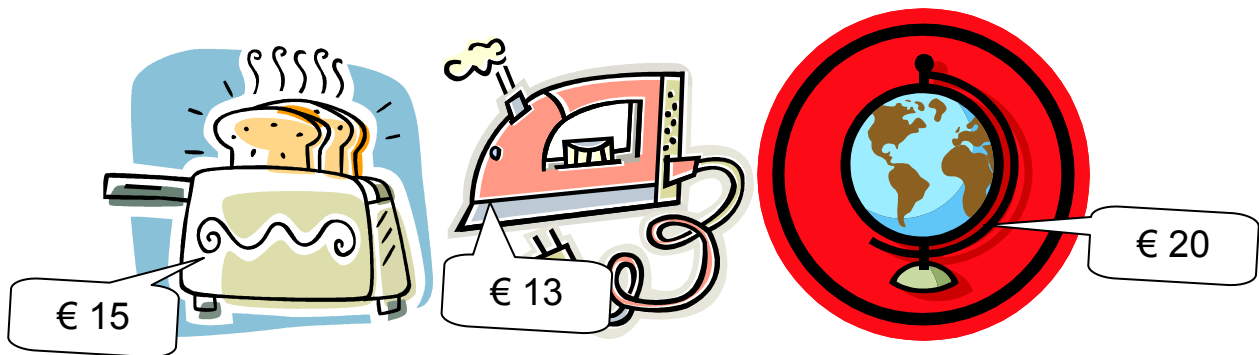
(1 mark)

2. Give the next two numbers in this sequence.

1, 3, 5, 7,,

(1 mark)

3. Work out the total cost of these household objects.



€ _____ ans

(2 marks)

4. Work out:

$\frac{3}{4}$ of €100 = _____ ans

(2 marks)

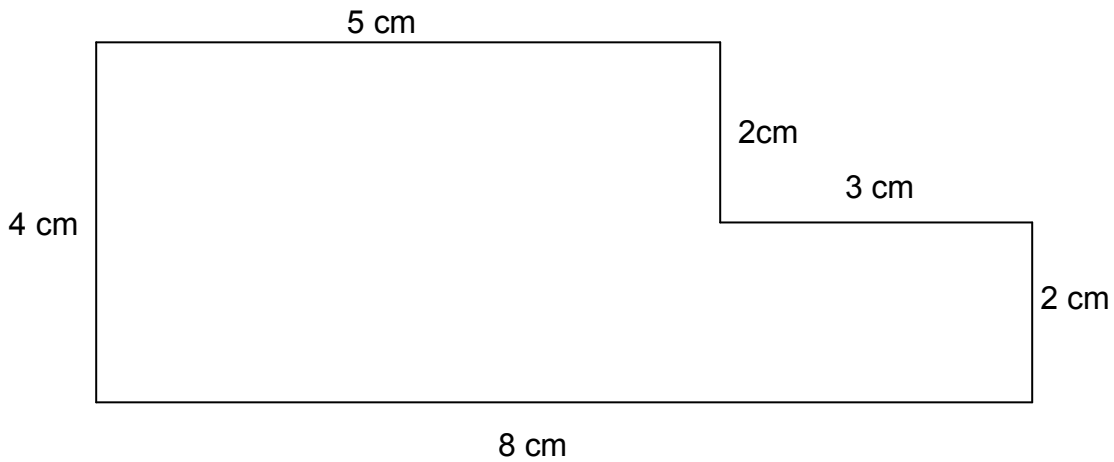
5. From the set of numbers {7, 8, 9, 10, 11} give:

(a) an even number _____

(b) a multiple of 5 _____

(2 marks)

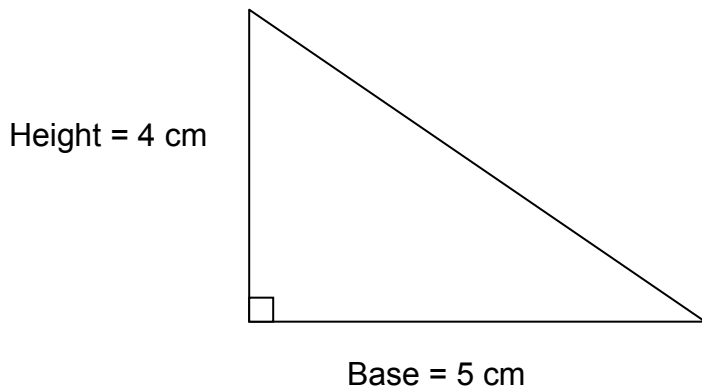
6. Find the perimeter of this shape.



_____ cm

(3 marks)

7. The area of this triangle is _____ (6 cm^2 , 8 cm^2 , 10 cm^2 , 12 cm^2).



(3 marks)

8. Work out

(a) $30 - 4 \times 5 =$ _____

(b) $(25 + 5) \div 6 =$ _____

(2 marks)

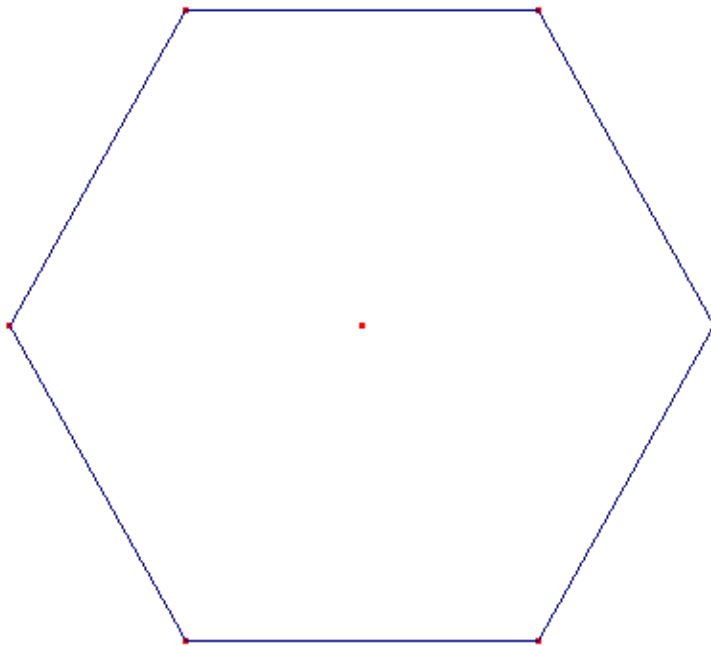
9. Choose the correct word from the following

impossible, unlikely, likely, very likely

It is _____ to rain in winter.

(2 marks)

10. On the shape below draw all the lines of symmetry.



(2 marks)

End of Paper



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**Form 4
Track 1**

**MATHEMATICS
Basic Skills**

Time: 1 $\frac{1}{2}$ hr

Name: _____

Class: _____

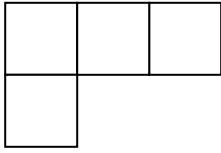
Paper 2
(Main Paper)

Questions	1	2	3	4	5	6	7	8	9	10	11	12	13	Total
Mark														

INSTRUCTIONS TO CANDIDATES

- Answer all questions.
- This paper carries 80 marks.
- Calculators and mathematical instruments are allowed.
- Show all necessary working.

1. Tessellate the shape for 3 times.



(3 marks)

2. Work out the following.

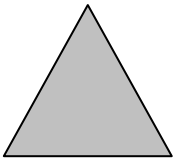
(a) $246 \times 3.25 =$

(b) $456 \div 2.5 =$

(c) $4.5 \times 10 \times 10 \times 10 =$

(3 marks)

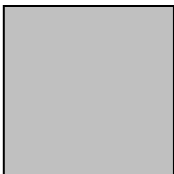
3. Match the shape with its property.



4 equal sides



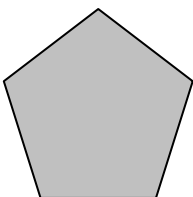
2 equal sides



5 equal sides



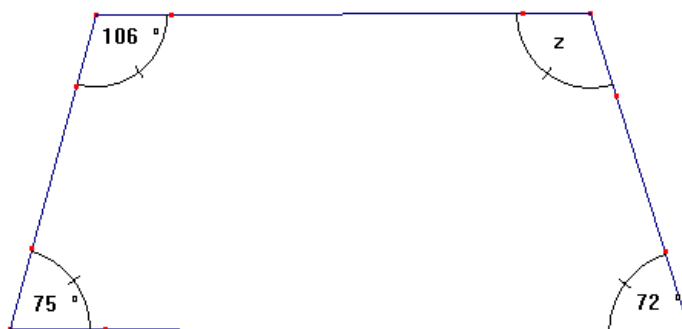
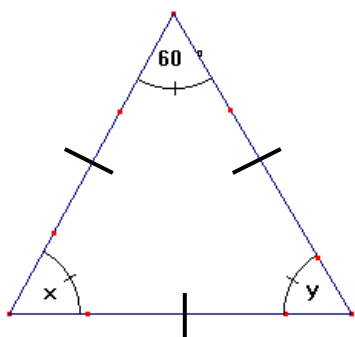
3 equal sides



radius 1 cm

(5 marks)

4. Work out the value of the angles marked x , y and z .



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

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

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

(6 marks)

5. Continue these fractions.

(a) $\frac{2}{3} = \frac{2}{3} \times \frac{5}{5} = \text{---}$

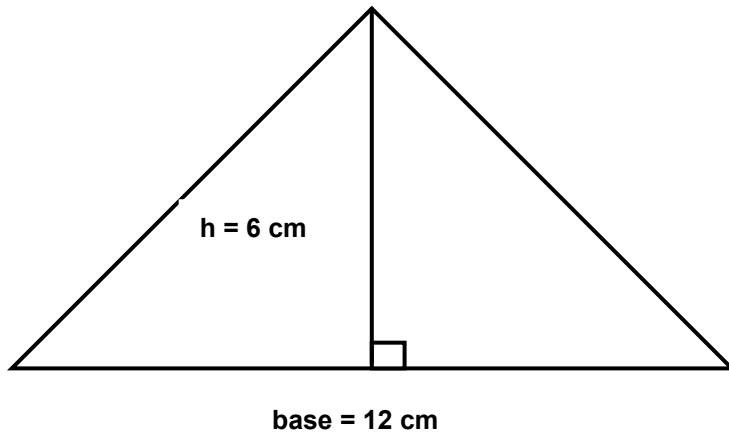
(b) $\frac{3}{5} = \frac{3}{5} \times \frac{\text{---}}{3} = \text{---}$

(c) Put the correct sign $<$, $>$, $=$

$$\frac{2}{3} \quad \square \quad \frac{3}{5}$$

(3 marks)

6. Find the area of this triangle.



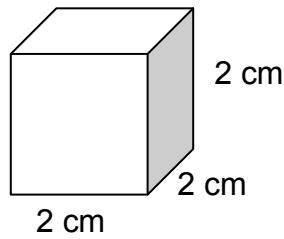
_____ cm²

(6 marks)

7.

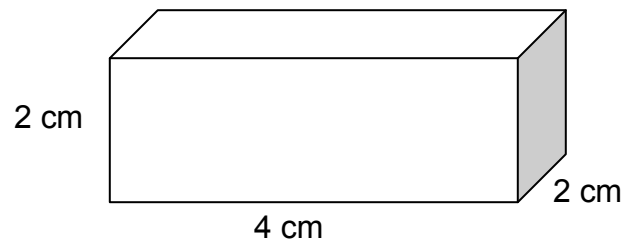
(a) Find the volume of this cube.

(Hint: $V = L \times B \times H$)



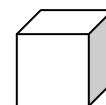
_____ cm³

(b) Find the volume of this cuboid.



_____ cm³

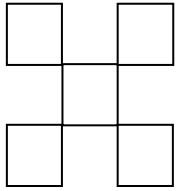
(c) How many cubes of side 1 cm fill the above cuboid?



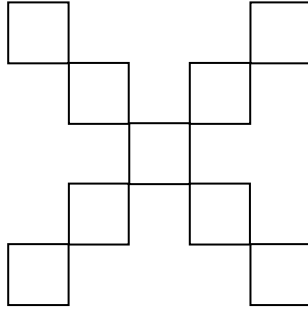
_____ cubes

(6 marks)

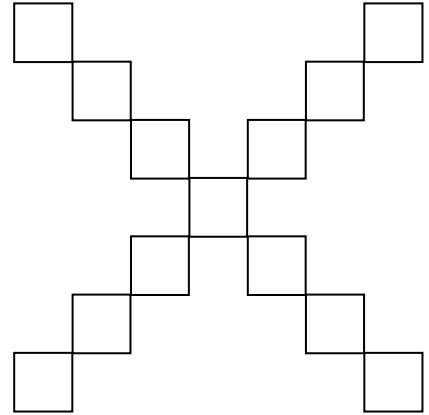
8. Look at these patterns:



Pattern 1



Pattern 2



Pattern 3

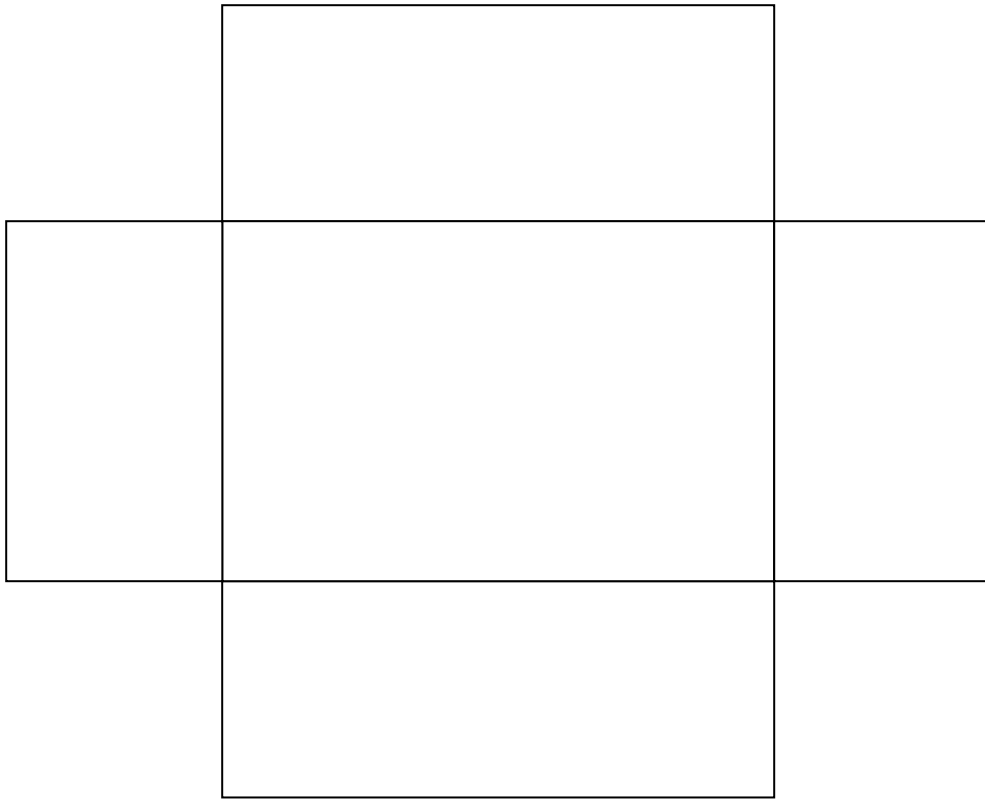
a) Draw the 4th pattern.

Pattern 4

b) Write the number of squares for the above pattern. _____, _____, _____, _____.

c) To find the next number one adds _____ to the previous. (8 marks)

9. This is part of the net of a cuboid.



- a) On the diagram draw the missing rectangle to make the net of the cuboid.
- b) The cuboid has _____ faces.
- c) It has _____ vertices.
- d) It has _____ edges.

(8 marks)

10. Fill in the blanks using these words.

certain

likely

evens

unlikely

- a) The sun will set today. _____ .
- b) I shall be happy on Carnival day this year. _____ .
- c) I will toss a coin and win. _____ .
- d) I will get all the 5 numbers and win Super 5. _____ .

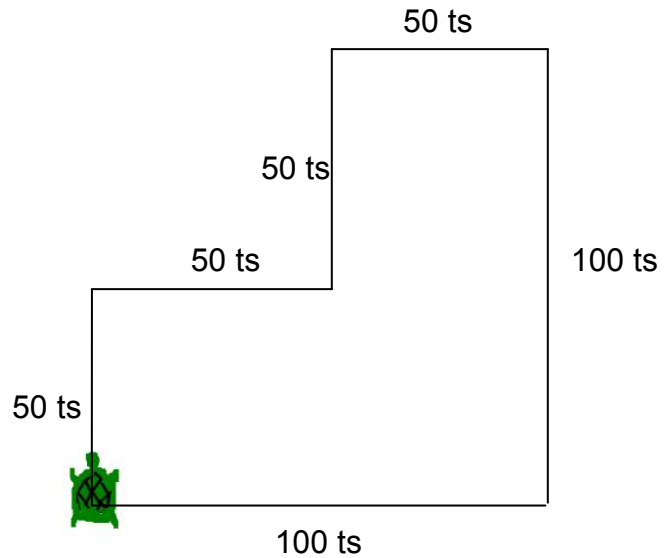
(8 marks)

11. Fill in the missing Logo commands to make this diagram. (ts means turtle steps)

a)

```

PD
FD 50
RT 90
FD 50
LT 90
FD _____
RT 90
FD 50
RT 90
FD _____
RT 90
FD _____
    
```



b) Find the perimeter of this shape in turtle steps.

_____ ts

(8 marks)

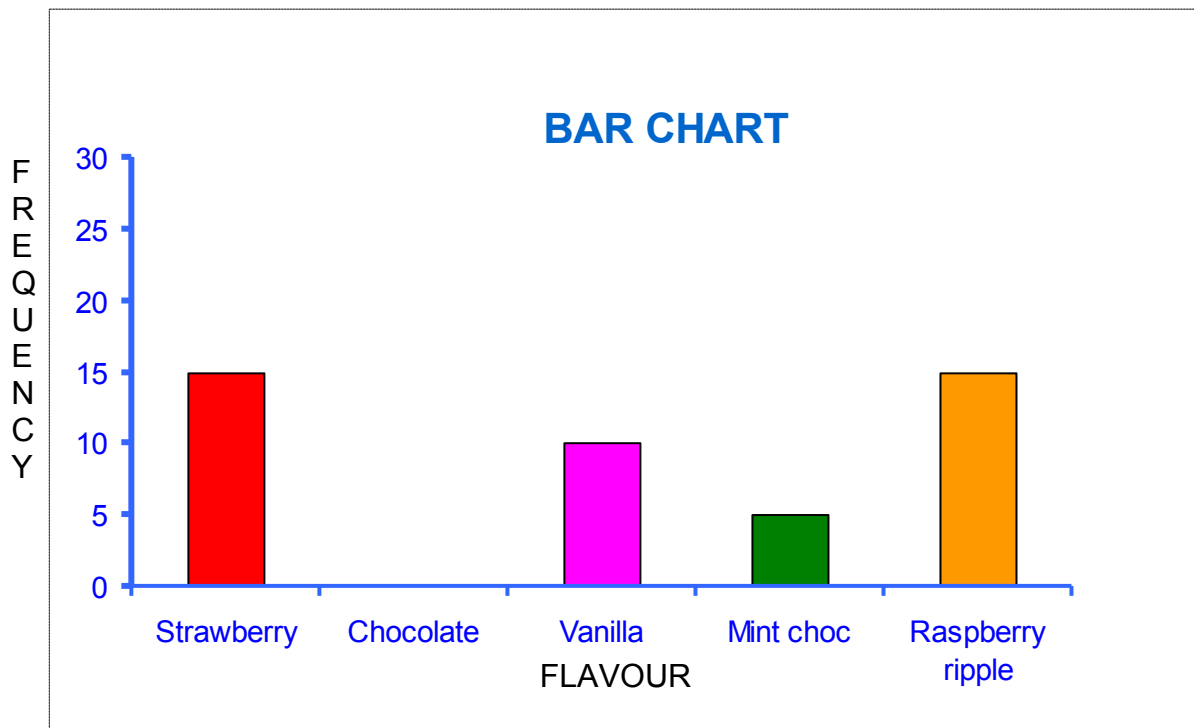
12. This table shows the ice-cream flavours sold at the school canteen.

a) Complete the table.

Flavour	Frequency
Strawberry	15
Chocolate	25
Vanilla	10
Mint choc	5
Raspberry ripple	
Total	70



b) Complete the bar chart.



c) The most popular flavour is _____ .

d) The least popular flavour is _____ .

(8 marks)

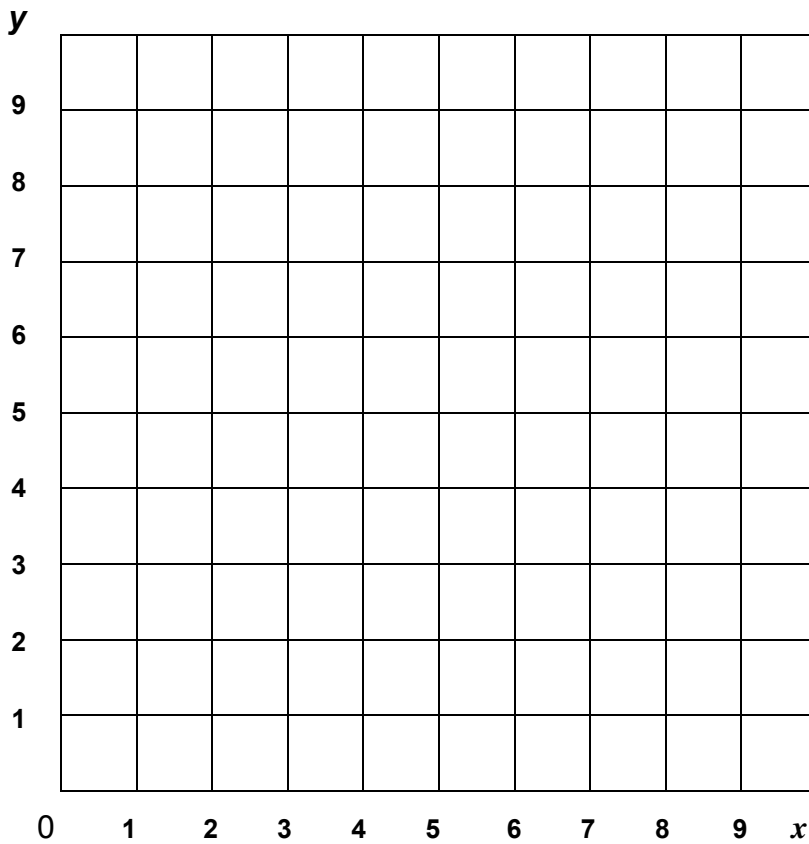
13. Use the axis below to plot these points in order.

a) $A(2, 9)$, $B(5, 9)$, $C(5, 2)$, $D(2, 2)$.

b) Join A to B, B to C, C to D and D to A.

c) The shape is a _____ (square, rectangle, triangle).

d) Draw the two lines of symmetry of this shape on the graph.



(8 marks)

END OF PAPER