SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education
Educational Assessment Unit

FORM 1 **MATHEMATICS SCHEME C** **TIME: 30 minutes**
Non-Calculator Paper

Name: _____ **Class:** _____

Question	1	2	3	4	5	6	7	Total
Mark								

Instructions to Candidates

- **Answer all questions.**
- **This paper carries a total of 25 marks.**
- **Calculators and protractors are not allowed.**

1. a) Write in figures:

four hundred eighty-six _____

b) Write in words:

955 _____

(2 marks)

2. a) Example: €5.75 → 575 cent

(i) €4.20 → _____ cent

(ii) €7.85 → _____ cent

b) Example: 246 cent → € 2.46

(i) 562 cent → € _____

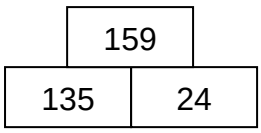
(ii) 915 cent → € _____

(4 marks)

Name :_____ **Class :**_____

3. To find a number in a brick **<u>add</u>** the two numbers just below.

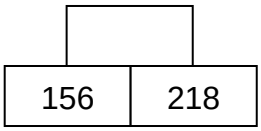
Example:



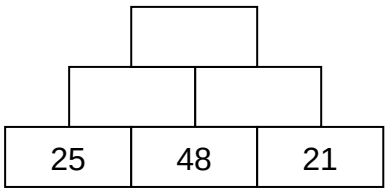
135 + 24 = 159

Fill in the empty bricks.

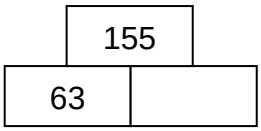
a)



b)



c)



(5 marks)

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4. Example: **76 × 5**

= **70** × 5 + **6** × 5

= **350** + **30**

= **380**

Work out: **26 × 4**

= ☐ × 4 + ☐ × 4

= ☐ + ☐

= ☐

(3 marks)

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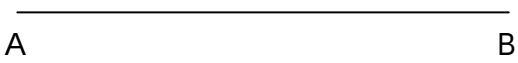
5. a) Put the following numbers in order, smallest first.

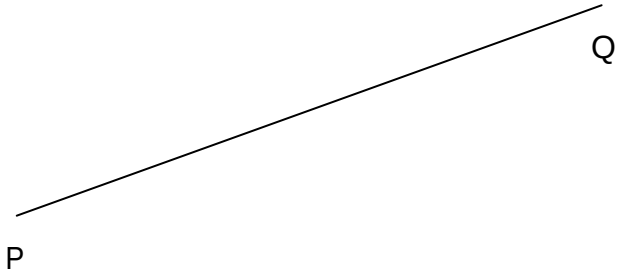
6.36 cm, 6.3 cm, 6.63 cm, 5.16 cm, 6.06 cm.

_____ _____ _____ _____ _____

b) Measure these lines.

(i) 

AB = _____cm

(ii) 

PQ = _____cm

(4 marks)

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6. **126 ÷ 18**

= **126 ÷** ☐ **÷** ☐

= ☐ **÷** ☐

= ☐

Answer _____

(5 marks)

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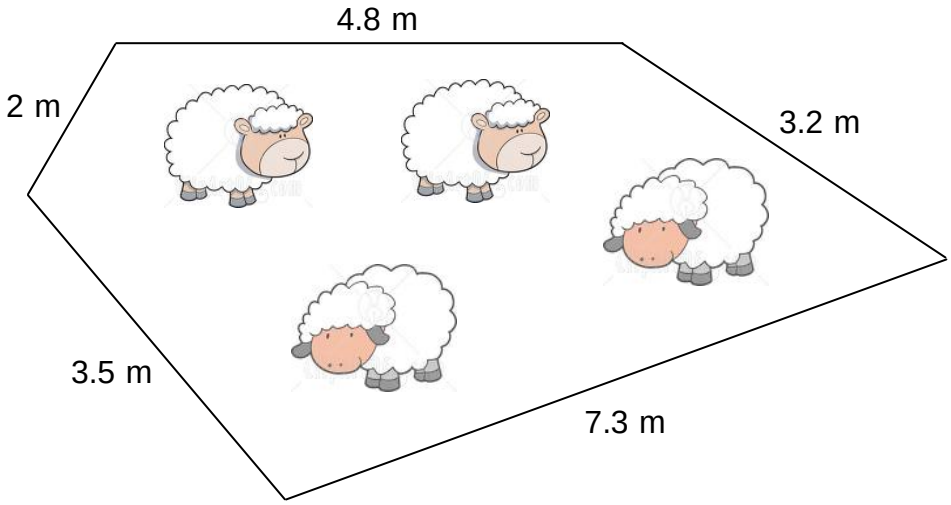
7. What is the perimeter of this sheepfold?



Answer _____m

(2 marks)

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

Directorate for Quality and Standards in Education
Educational Assessment Unit

FORM 1 **MATHEMATICS SCHEME C** **TIME: 1h 30min**

Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Total Main	Non Calculator	**Global Mark**
Mark																

DO NOT WRITE ABOVE THIS LINE

Name: _____ **Class:** _____

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

CALCULATORS ARE ALLOWED

ANSWER ALL QUESTIONS

1. Look at these numbers:

5 6 7 8 9 10

a) Write one **even** number _____

b) Write one **odd** number _____

c) Write one **square** number _____

d) Write a **multiple** of 4 _____

e) Write a **factor** of 12 _____

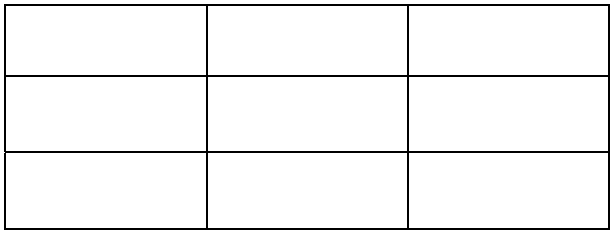
(5 marks)

2. Shade $\frac{1}{3}$ of each figure.
How many parts have I shaded each time?

a)

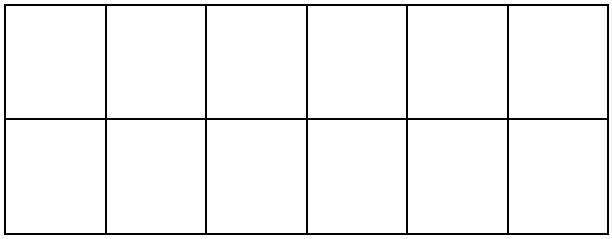
I shaded _____ part/s.

b)



I shaded _____ parts.

c)

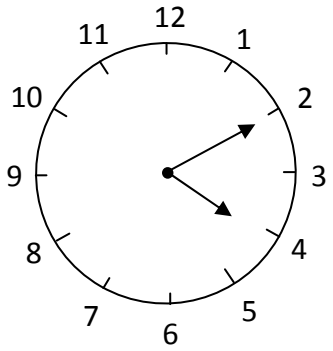


I shaded _____ parts.

(6 marks)

Name :_____ **Class :**_____

3. What is the time?



a) _____ past _____ in the afternoon

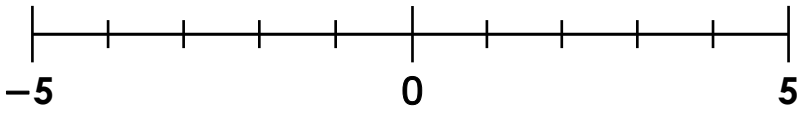
b) _____ : _____ **p.m.**

c) _____ : _____

(3 marks)

4. a) Put these numbers on the number line below.

−2 ; **−4** ; **3**.



b) These are the temperatures in Moscow and Berlin.

Moscow at **−6°C**, Berlin at **−1°C.**

Which is the colder city?

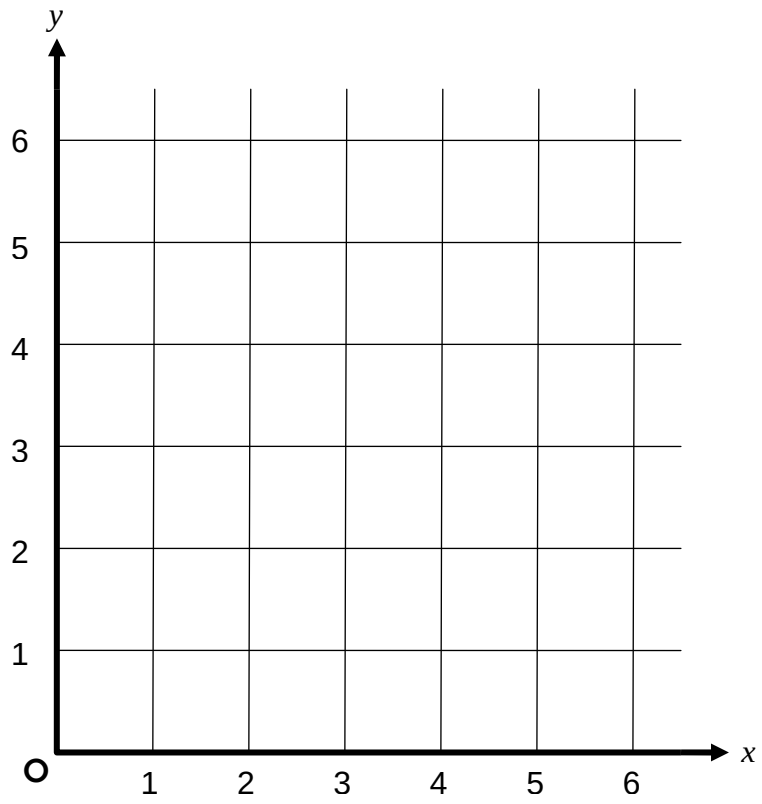
Ans: _____

(4 marks)

5. a) Plot these points and join them in order.

(1,2) → (1,5) → (3,4) → (4,4) → (6,5) →

(6,2) → (4,3) → (3,3) → (1,2).



b) Draw the lines of symmetry for the shape you have drawn.

c) Janice is using LOGO. She starts from the turtle.
What will Janice see when she inputs these commands?

PD FD 100 RT 90 FD 50 RT 90 FD 100.

(9 marks)

Name :_____ Class :_____

6. Find the **output** in each of these number machines.

a) 33 → [−5] → ☐

b) 45 → [÷ 9] → ☐

c) 6 → [× 6] → [+ 4] → ☐

(4 marks)

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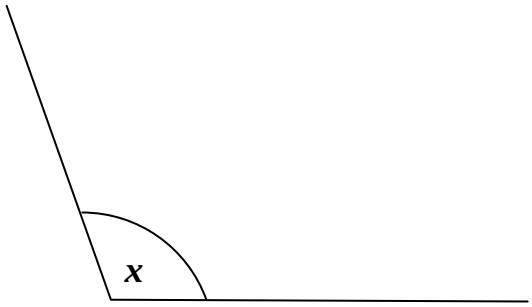
7. a) Use your protractor to measure the angle marked x.



Ans: x = _____ °

b) Use your protractor to draw an angle of 75° at A.

(3 marks)

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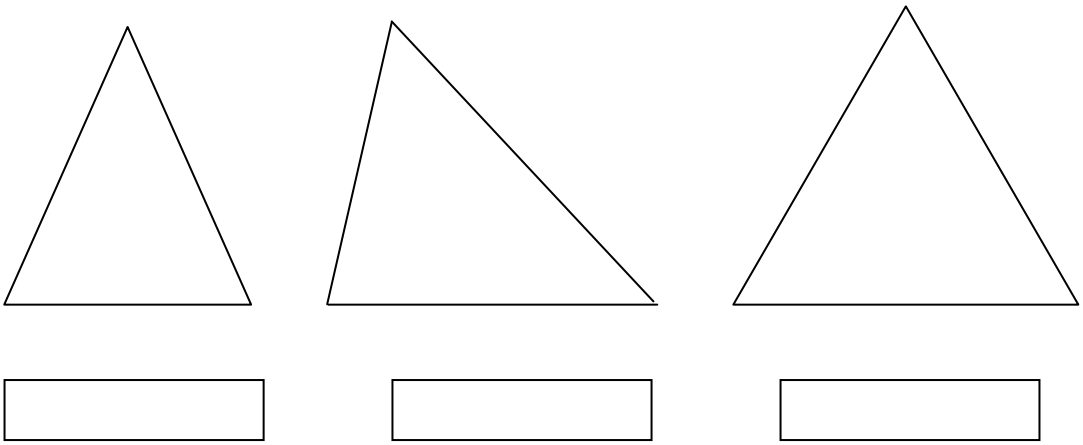
8. a) Use these words to name each of the triangles below

scalene **equilateral** **isosceles**



b) Mark with a circle. Example: (Yes)/No

(i) Which of these triangles have **line symmetry**?

Scalene triangle: Yes/No.

Equilateral triangle: Yes/No.

Isosceles triangle: Yes/No.

(ii) Which of these triangles have **rotational symmetry**?

Scalene: Yes/No.

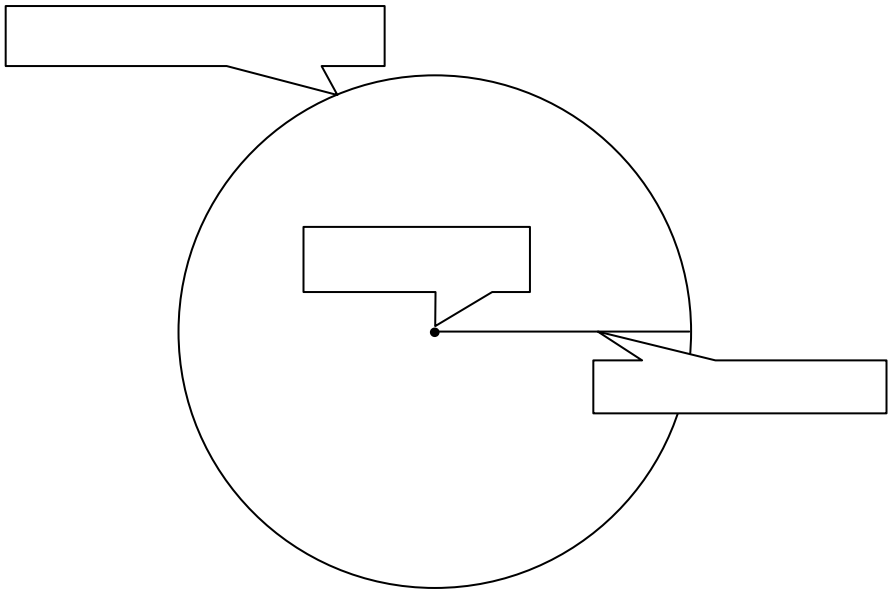
Equilateral: Yes/No.

Isosceles: Yes/No.

(9 marks)

9. a) Fill in with these names:

centre, radius, circumference.



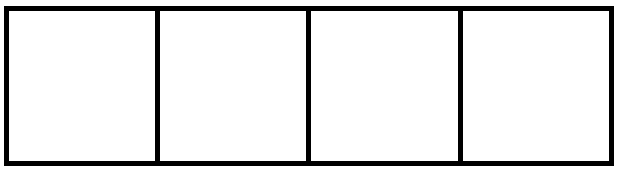
b) Use your compasses to draw a circle of radius 4 cm.

c) Draw and measure a diameter of your circle.

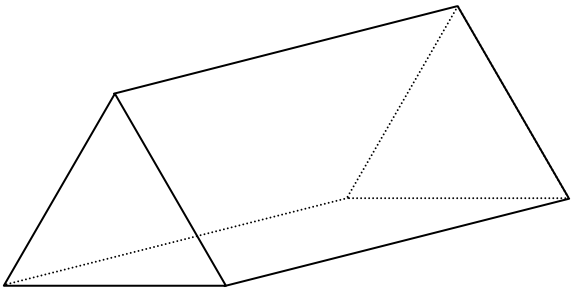
Ans: _____cm

(5 marks)

10. a) Add two more squares to form the **net of a cube**.



b)



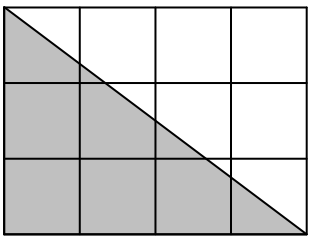
This prism has _____ faces,

_____ edges,

_____ vertices.

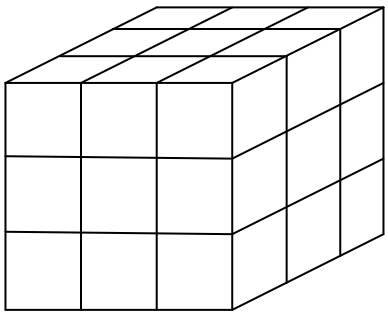
(5 marks)

11. Each square is of side 1 cm.

a) 

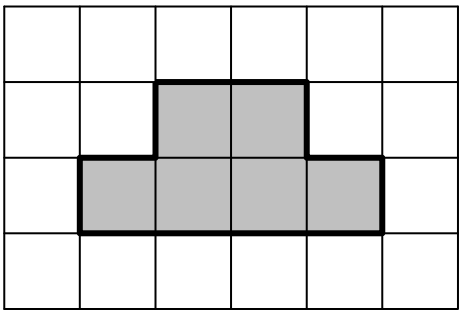
What is the area of the triangle?

Ans: _____ cm^2

b) 

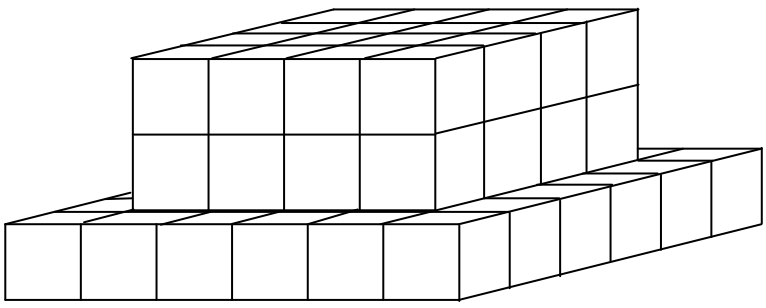
What is the volume of the cube?

Ans: _____ cm^3

c) 

What is the area of this shape?

Ans: _____ cm^2

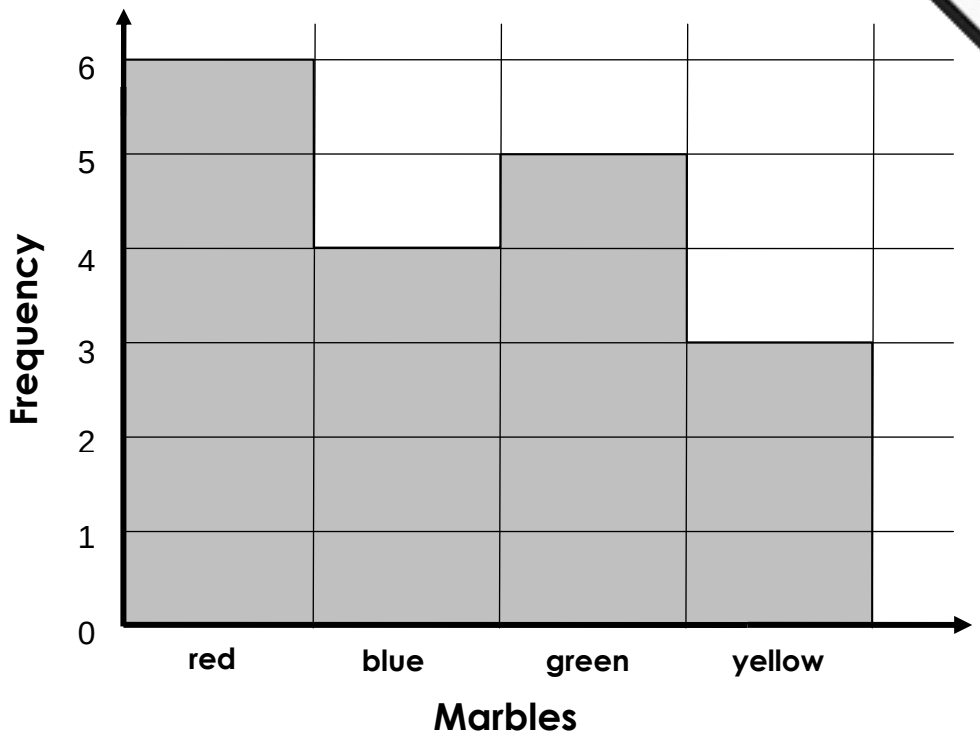
d) 

What is the volume of this shape?

Ans: _____ cm^3

(7 marks)

12. a)



Michael has drawn a bar chart to show the colours of his marbles.

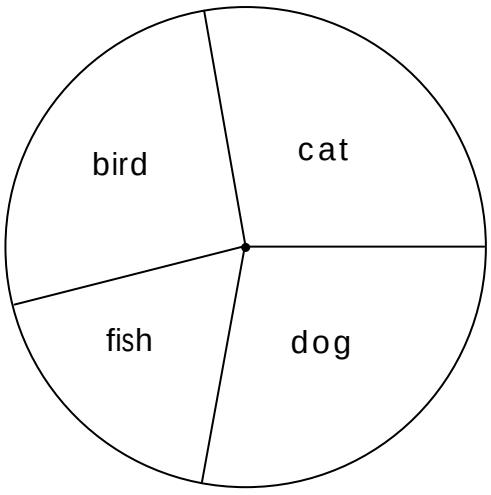
(i) What is the colour of the marbles Michael has **most**?

Ans: _____

(ii) How many marbles does he have **in all**?

Ans: _____

b) This **pie chart** shows the number of **pets** of Martha's friends.



(i) Which pets are **equal** in number?

Ans: _____

(ii) Which is the **least** favourite pet?

Ans: _____

(5 marks)

13. a) Timothy measured the **heights** of his friends. These are the results.

Mario	**150 cm**	Maria	**148 cm**	Joseph	**150 cm**	Lucy	**150 cm**
Darren	**145 cm**	Kim	**152 cm**	Christa	**148 cm**	Derek	**149 cm**

(i) Work out the mean height.

Ans: _____cm

(ii) What is the mode of these heights?

Ans: _____cm

b) Write near each statement:
certain, likely, unlikely, impossible.

(i) Triangles have four sides. _____

(ii) I go swimming in June. _____

(iii) Christmas comes in December. _____

(iv) I win the national lottery prize. _____

c) 

(i) The probability that the dice lands on a five is _____. $\left(\frac{1}{2},\frac{1}{3},\frac{1}{4},\frac{1}{6}\right)$

(ii) The probability that the dice lands on an even number is _____. $\left(\frac{1}{2},\frac{1}{3},\frac{1}{4},\frac{1}{6}\right)$

(10 marks)

END OF PAPER

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