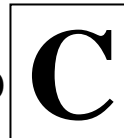


SECONDARY SCHOOL ANNUAL EXAMINATIONS 2010

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)

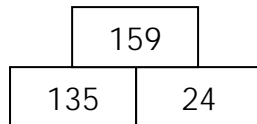
Name : _____

Class : _____

C

3. To find a number in a brick add the two numbers just below.

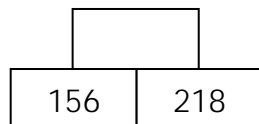
Example:



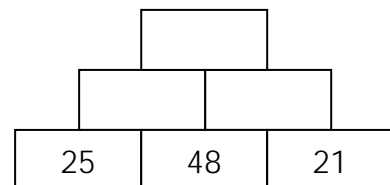
$$135 + 24 = 159$$

Fill in the empty bricks.

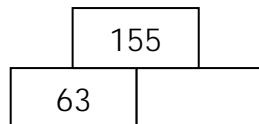
a)



b)



c)



(5 marks)

4. Example: 76×5

$$= \boxed{70} \times 5 + \boxed{6} \times 5$$

$$= \boxed{350} + \boxed{30}$$

$$= \boxed{380}$$

Work out: 26×4

$$= \boxed{} \times 4 + \boxed{} \times 4$$

$$= \boxed{} + \boxed{}$$

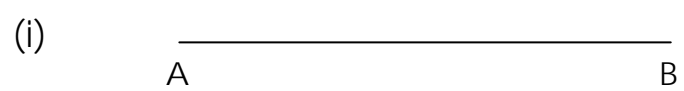
$$= \boxed{}$$

(3 marks)

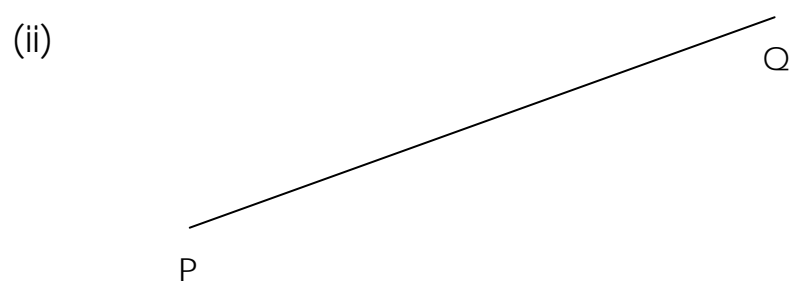
5. a) Put the following numbers in order, smallest first.

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

b) Measure these lines.



AB = _____cm



PQ = _____cm

(4 marks)

6. **126 ÷ 18**

= **126** ÷ ÷

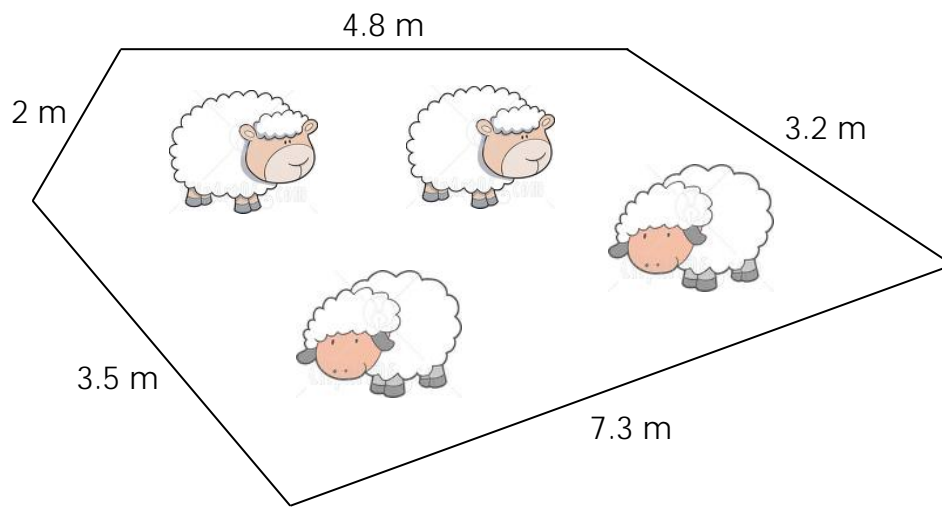
= ÷

=

Answer _____

(5 marks)

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)

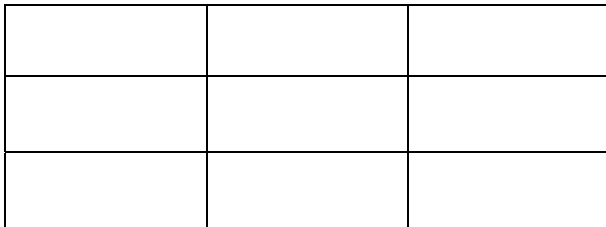
2. Shade $\frac{1}{3}$ of each figure.
How many parts have I shaded each time?

a)



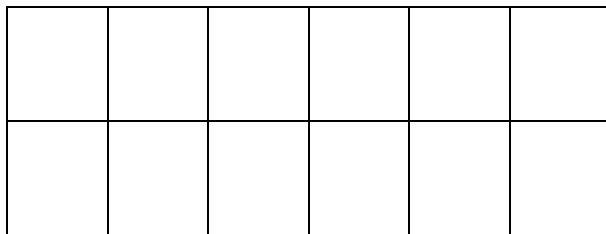
I shaded _____ part/s.

b)



I shaded _____ parts.

c)



I shaded _____ parts.

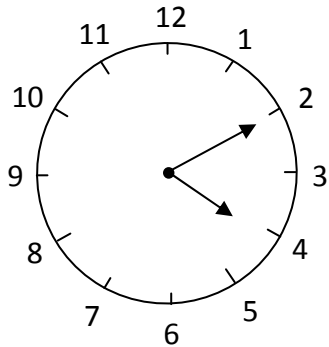
(6 marks)

Name : _____

Class : _____

C

3. What is the time?



a) _____ past _____ in the afternoon

b)

_____ : _____

p.m.

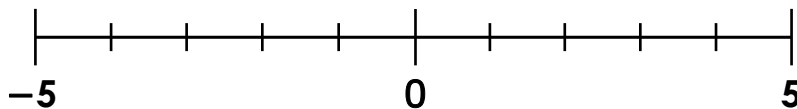
c)

_____ : _____

(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?

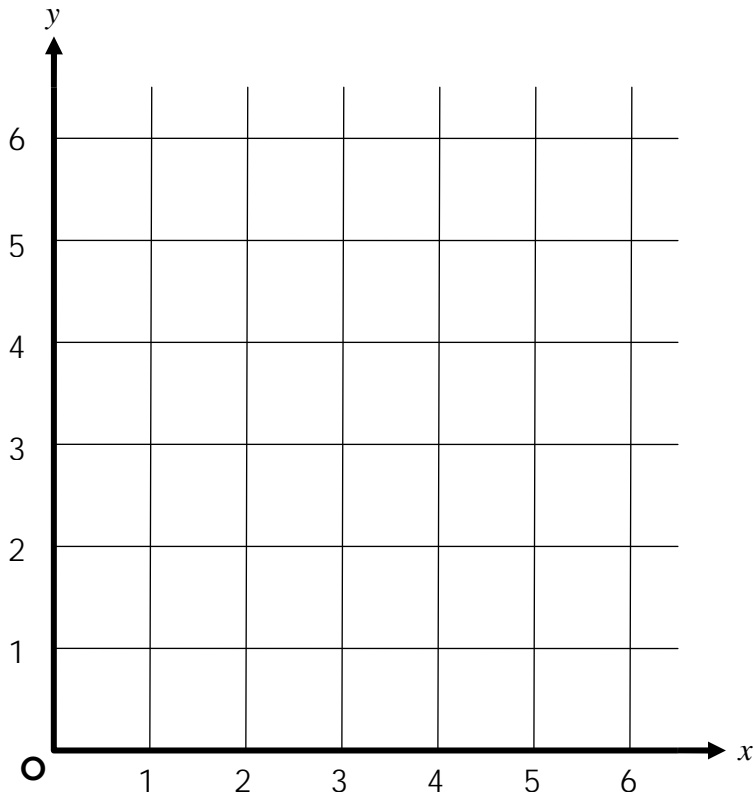
Ans: _____

(4 marks)

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

$(1,2) \rightarrow (1,5) \rightarrow (3,4) \rightarrow (4,4) \rightarrow (6,5) \rightarrow$

$(6,2) \rightarrow (4,3) \rightarrow (3,3) \rightarrow (1,2).$



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.



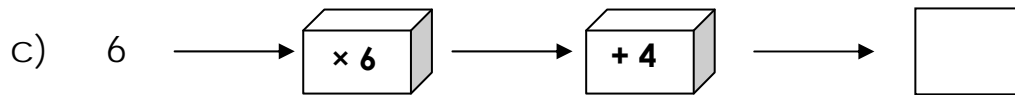
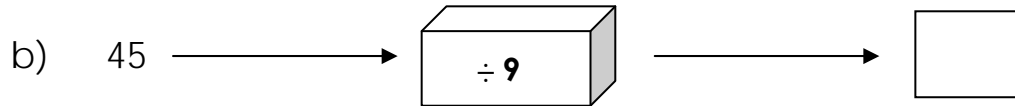
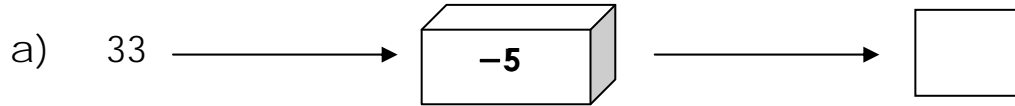
(9 marks)

Name : _____

Class : _____

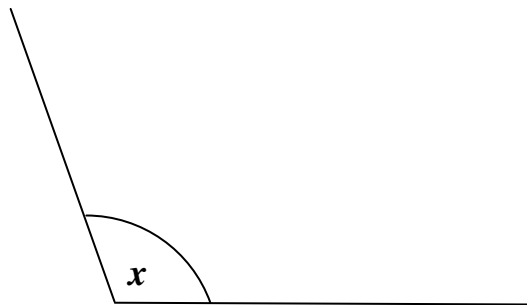
C

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



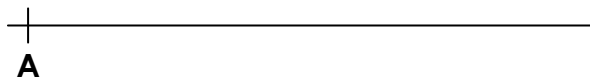
(4 marks)

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



Ans: $x =$ _____ $^{\circ}$

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



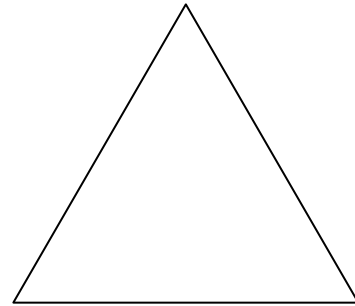
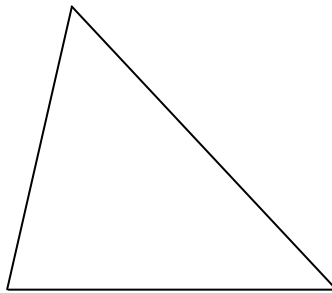
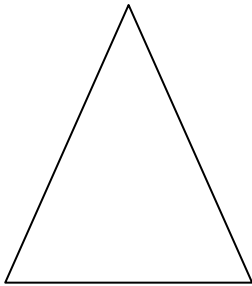
(3 marks)

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.

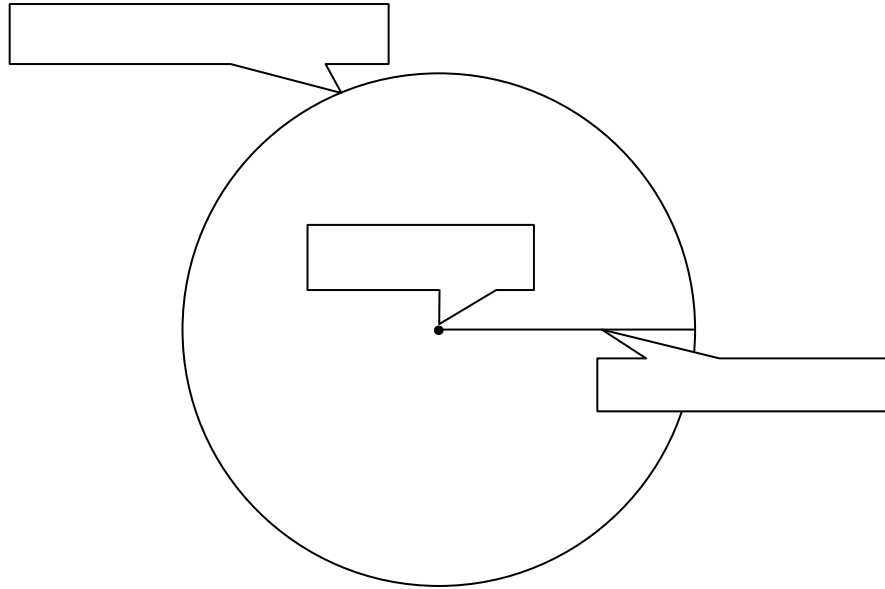
Equilateral: Yes/No.

Isosceles: Yes/No.

(9 marks)

9. a) Fill in with these names:

centre, radius, circumference.



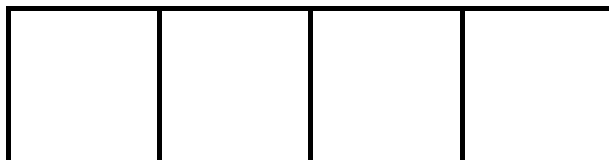
b) Use your compasses to draw a circle of radius 4 cm.

c) Draw and measure a diameter of your circle.

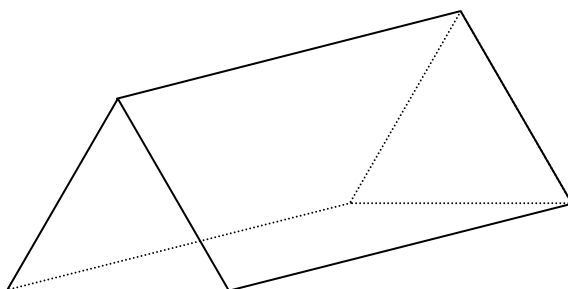
Ans: _____ cm

(5 marks)

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



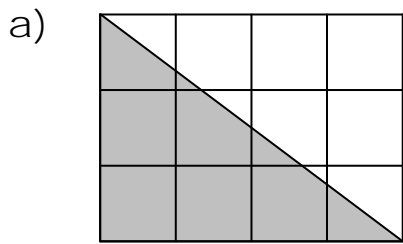
b)



This prism has _____ faces,
_____ edges,
_____ vertices.

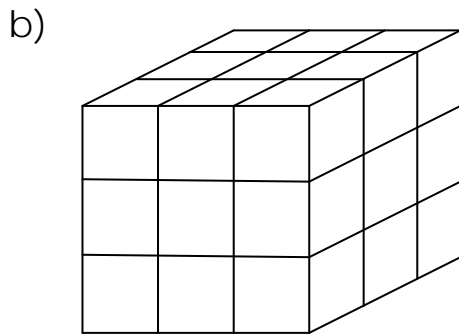
(5 marks)

11. Each square is of side 1 cm.



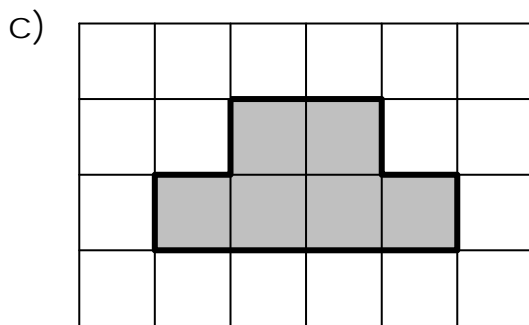
What is the area of the triangle?

Ans: _____cm²



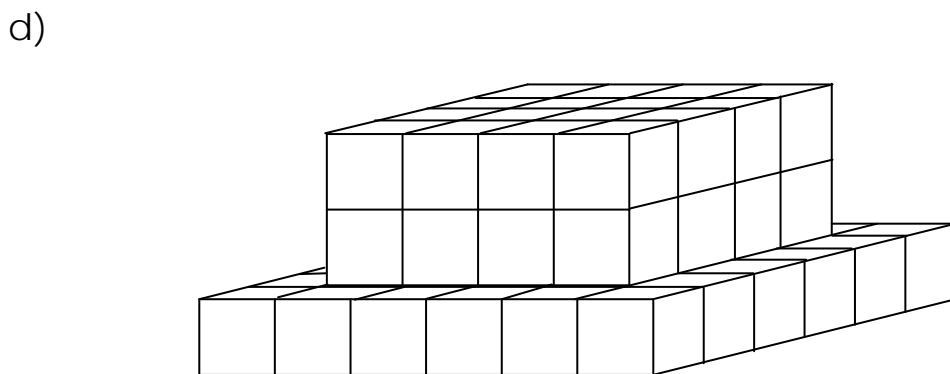
What is the volume of the cube?

Ans: _____cm³



What is the area of this shape?

Ans: _____cm²

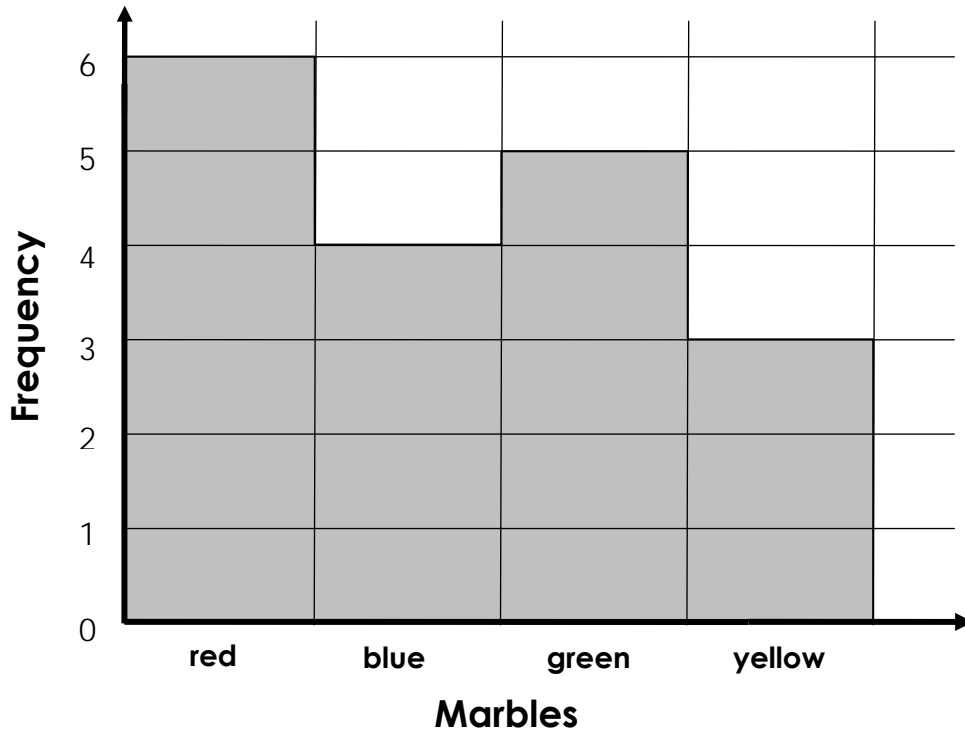


What is the volume of this shape?

Ans: _____cm³

(7 marks)

12. a)



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

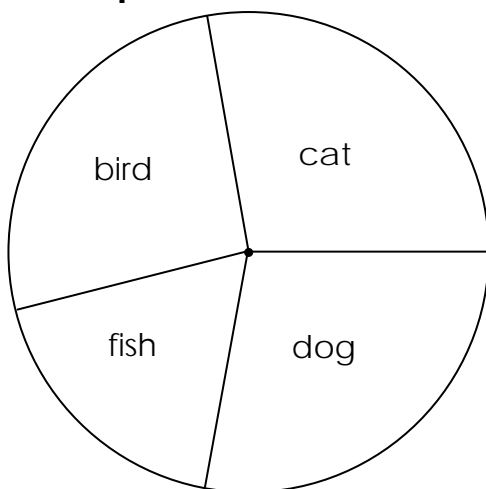
(i) What is the colour of the marbles Michael has **most**?

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 his 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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