

FORM 2

MATHEMATICS SCHEME D
Non Calculator Paper

TIME: 30 minutes

Name: _____

Class: _____

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

Instructions to Candidates

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

1. Evaluate : a) $136.182 \times 100 =$ _____

b) $58 \div 2 =$ _____

(2 marks)

2. John has 26 sweets.
He eats 8 sweets.
How many sweets has he now ?



_____ sweets

(2 marks)

3. This thermometer shows the temperature.

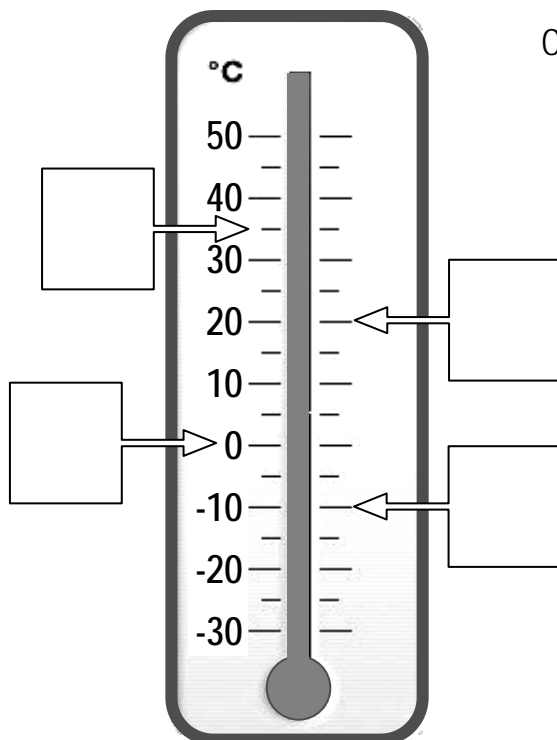
Fill in the blanks using these numbers.

0°C

20°C

-10°C

35°C



(3 marks)

4. Fill in the missing numbers :

a) $5 + \square = 10$

b) $13 + \square = 20$

c) $\square + 80 = 100$

(3 marks)

5. This fuel tank holds 40 litres of petrol when full.

a) What fraction of the tank is full ?
Circle the correct fraction.

$\left(\frac{1}{3} , \frac{1}{4} , \frac{1}{2} \right)$



b) How many litres of petrol are there in the tank ?

_____ litres

(3 marks)

6. Mark the following as **TRUE** or **FALSE**.

a) 84 is an **EVEN** number _____

b) $100 - 40$ is less than 55 _____

c) $50\% > \frac{4}{8}$ _____

(3 marks)

7. A recipe for **2** persons uses 225 g of flour.



A recipe for **4** persons uses _____ g of flour.

(2 marks)

8. Work out a) $(2 + 3) \times (7 - 4) =$ _____

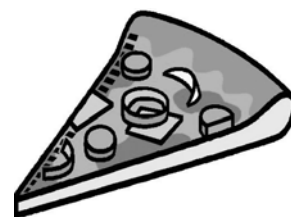
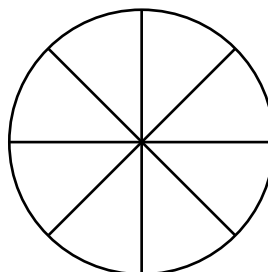
b) $18 - (2 \times 4) =$ _____

(4 marks)

9. A pizza is divided into 8 pieces.

- a) Jake eats $\frac{3}{8}$ of the pizza.

Shade the number of pieces that Jake eats.



- b) Jake eats another $\frac{1}{8}$ of the pizza.

What fraction of the pizza does he eat in all?

Give your answer in its simplest form :

$$\frac{3}{8} + \frac{1}{8} =$$

(3 marks)

END OF PAPER

FORM 2 **MATHEMATICS SCHEME D** **TIME: 1h 30min**
Main Paper

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Total Main	Non Calc	Global Mark
Mark																					

DO NOT WRITE ABOVE THIS LINE

Name _____

Class _____

**CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN.
 ANSWER ALL QUESTIONS.**

1. Fill in the blanks using the following words :

sixty

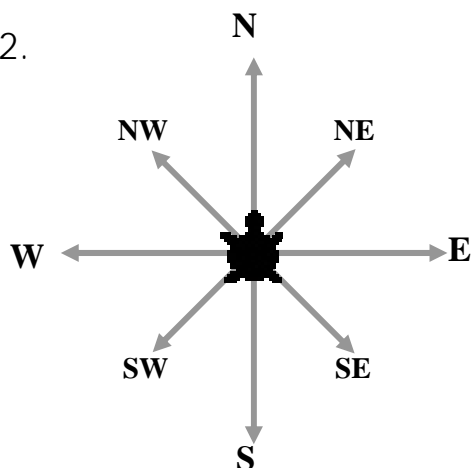
thousand

six

8665 = Eight _____ hundred and _____-five

(2 marks)

2.



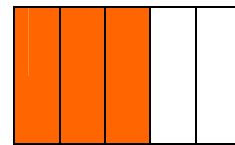
The LOGO turtle is facing North.

Luke types **RT 90**.

Which direction will the turtle now face ?

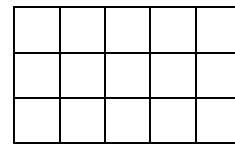
(1 mark)

3. Luke shades $\frac{3}{5}$ of Shape 1.



Shape 1

a) How many squares does he shade to shade $\frac{3}{5}$ of Shape 2 ?



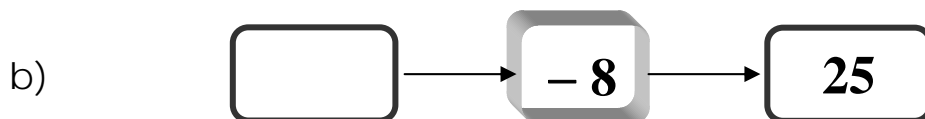
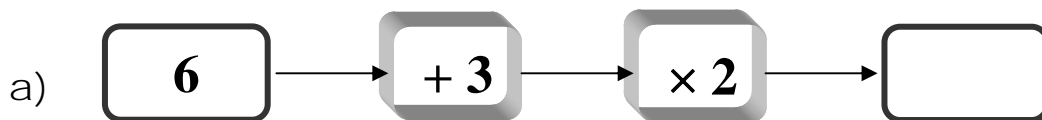
Shape 2

_____ squares

b) Fill in the blanks $\frac{3}{5} = \frac{\boxed{}}{15}$

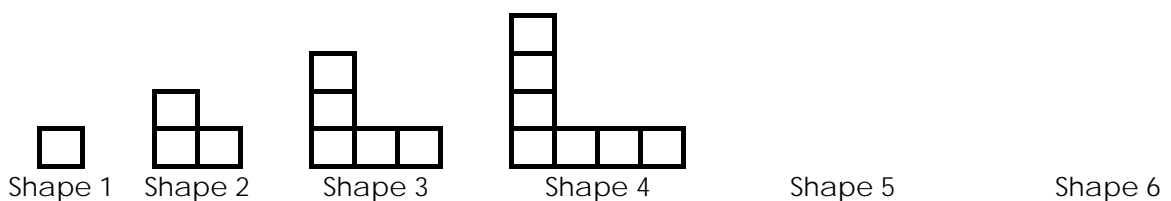
(2 marks)

4. Fill in the missing numbers in the following number machines.



(4 marks)

5.



a) Draw the next two shapes.

b) Complete the table of the numbers of squares in each shape :

Shape Number	1	2	3	4	5	6
Number of Squares	1	3	5	7		

(4 marks)

Name: _____

Class: _____

6. Emma buys these objects from the shop.



€4.85



€1.36



€1.52

a) Put these prices in order, smallest first.

€ _____

€ _____

€ _____

b) Round each price correct to the nearest €.

€ _____

€ _____

€ _____

c) How much does Emma spend at the shop?

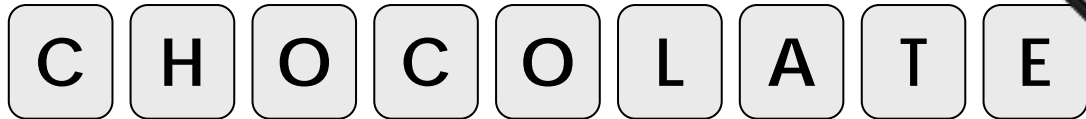
€ _____

d) Emma has €10. What change does she get?

€ _____

(9 marks)

7. The letters of the word **CHOCOLATE** are put in a bag.



Alan picks a letter at random.

On the probability scale, mark with a cross **X** the probability that Alan chooses the **letter B**.

Impossible Certain

(2 marks)

8. Julie is on the **3rd floor**.

She wants to go down **4** floors.

Shade the button of the lift that she presses.



(2 marks)

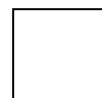
9. Fill in the blanks with **<** or **>** or **=**.

a)



b)

115 cm

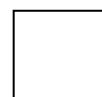


1.15 m

c)



3 × 40c



€1.30

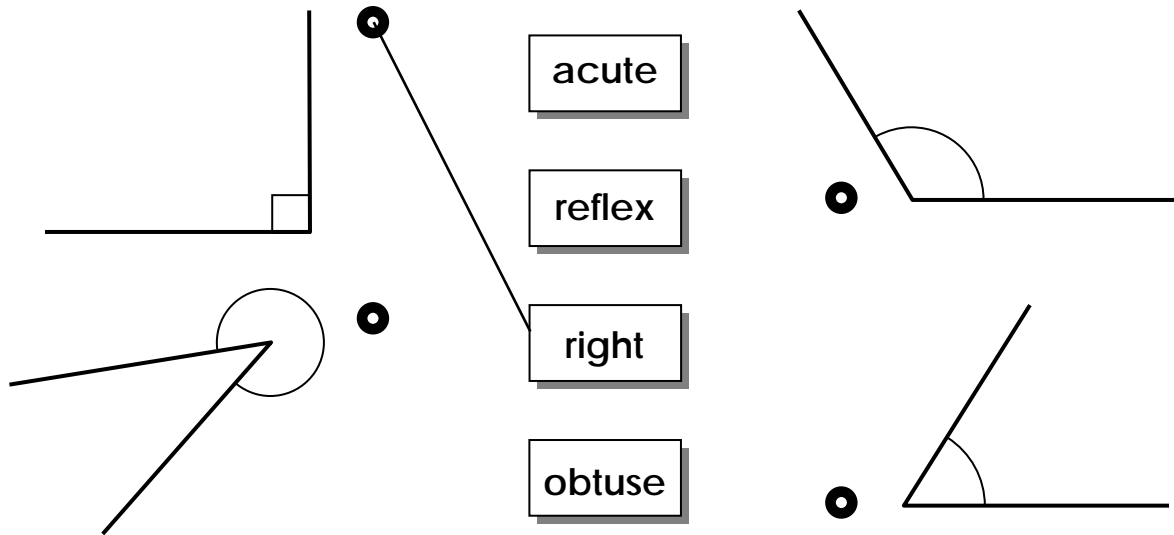


(5 marks)

Name: _____

Class: _____

10. a) Match the correct word to each drawing.
The first one is done for you.



- b) Use your protractor and measure the obtuse angle.
Finish the sentence.

The obtuse angle is _____°.

(4 marks)

11. During a sale a jacket is sold at a discount of 50%.
The jacket costs €54.



- a) How much do I save when I
buy the jacket ?


€ _____



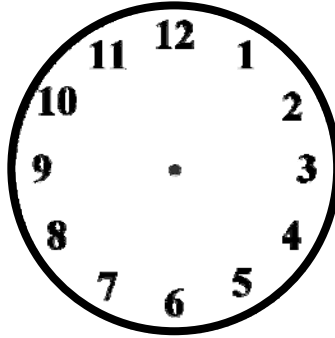
- b) Fill the price tag with the new sale
price.

(3 marks)

12.

SUNRISE 6.20 a.m.	
SUNSET 8.15 p.m.	

- a) Draw the hands on the clock to show the time when the sun rises.



- b) Write the sunset time in 24-hour clock. _____

(3 marks)

13. a) The year 2012 is a **LEAP YEAR**.

(i) In 2012 the month of February has _____ days.

(ii) A leap year happens every 4 years.

Work out the next leap years.

2012, 2016, _____, _____.



- b) These are the **Expiry** dates on 3 packets of biscuits.

Shade the packet that must be used first.



























BEST BEFORE
12 / 09 / 12

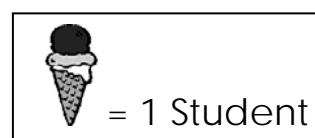
BEST BEFORE
24 / 02 / 12

BEST BEFORE
02 / 11 / 12

(4 marks)

14. Lisa asks students about which ice-cream flavour they like best.
The diagram shows their answers.

Vanilla	     
Chocolate	         
Strawberry	      
Banana	  



- a) How many students like **strawberry flavoured** ice-cream best?

- b) Which is the **least favourite** ice-cream flavour ?

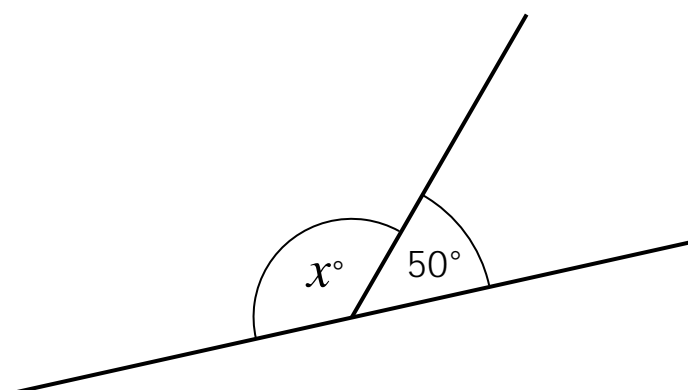
- c) Which ice-cream flavour do students prefer **most** ?

- d) How many students answer Lisa's question ?

(5 marks)

15.

Fill in the blanks.



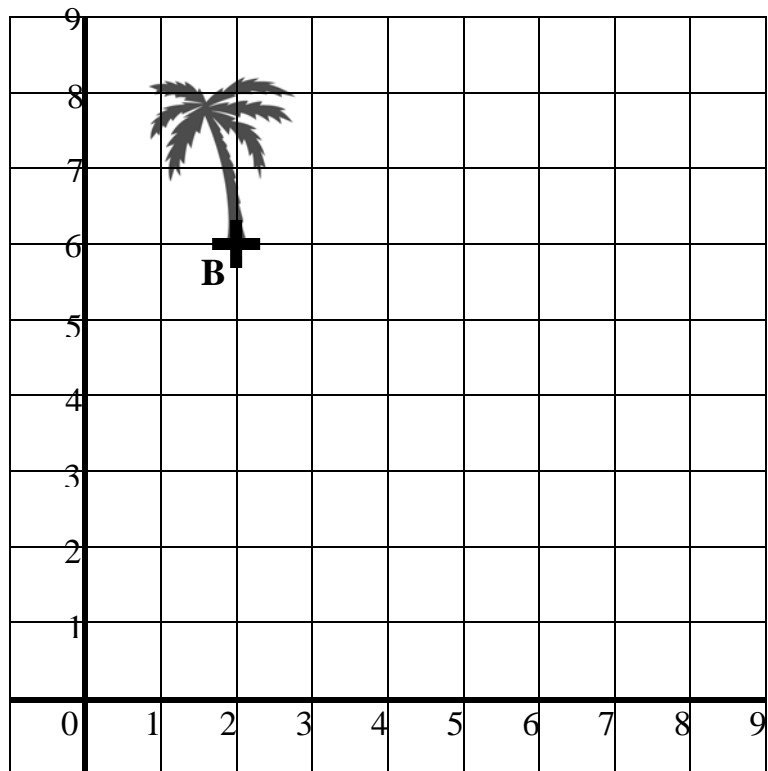
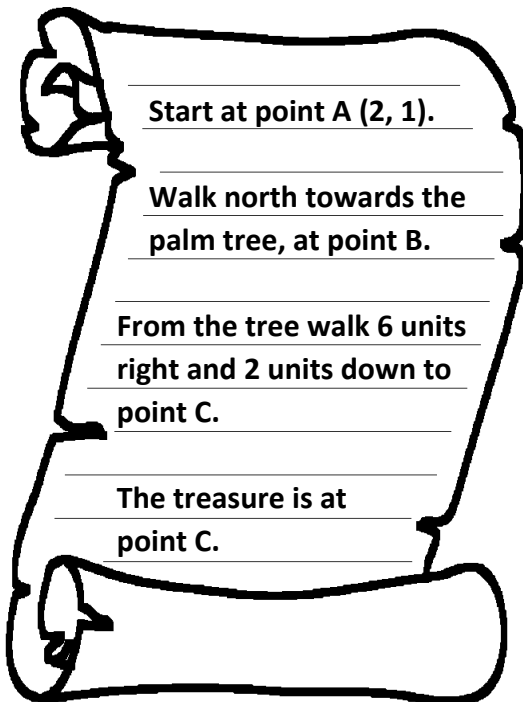
a) $x^\circ + 50^\circ = \underline{\hspace{2cm}}^\circ$

b) $x^\circ = \underline{\hspace{2cm}}^\circ - 50^\circ$

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

(3 marks)

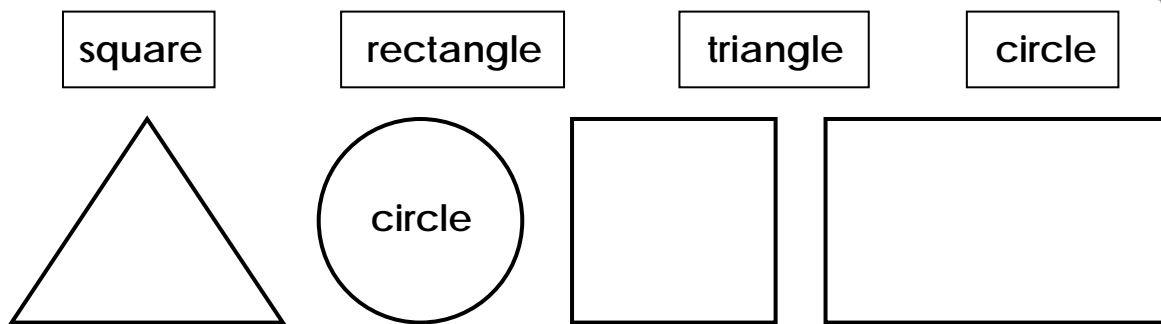
16. The following instructions will help you find the hidden treasure.
Read the instructions and then answer the questions below.



- Plot your starting point, **A (2, 1)**, on the graph.
- Give the coordinates of the palm tree, at point **B**. (____, ____)
- Mark point **C** on the graph.
- Give the coordinates of the treasure at point **C**. (____, ____)
- Join point A to point B, point B to point C and point C to point A to form triangle **ABC**.

(5 marks)

17. a) Fill in the correct name inside each shape.
The first one is done for you.



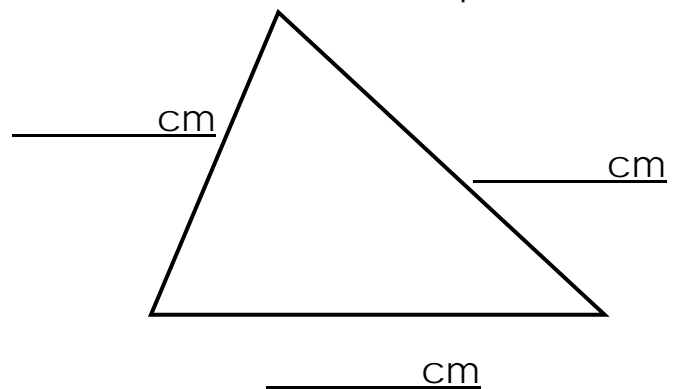
- b) Underline the correct word.

A (square, rectangle, triangle, circle) is made up of a curved line.

A triangle has (0 , 3 , 4) vertices.

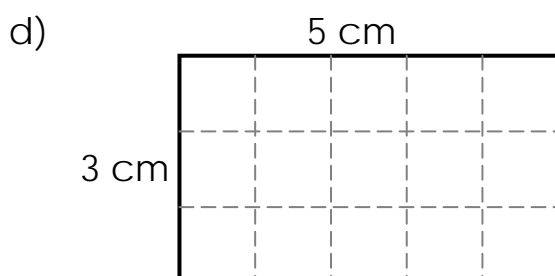
A (square, rectangle, triangle, circle) has 4 equal sides.

- c) (i) Use your ruler to measure the three sides of this shape.



- (ii) Work out the **Perimeter** of this shape.

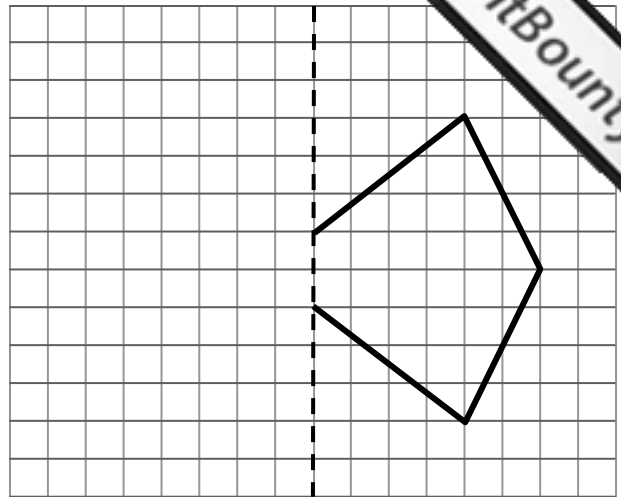
Per = _____ cm



The area of this shape is
_____ cm².

(12 marks)

18. a) (i) Complete this shape so that the dotted line is a **line of symmetry**.



- (ii) The letter **H** has rotational symmetry of order _____.

- b) A LOGO turtle follows these commands.

PD FD 60 RT 90 FD 100 LT 90 FD 30

Draw a diagram to show the turtle's trip.



(5 marks)

END OF PAPER