

**KULLEĠĠ SAN BENEDITTU**  
**Boys Secondary School, Kirkop**

**D**

**HALF-YEARLY EXAMINATIONS – FEBRUARY 2014**

**FORM 4**

**MATHEMATICS** Scheme D

**TIME: 20 mins**

**Non Calculator Paper**

**Mark**

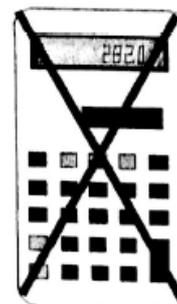
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**NAME AND SURNAME:** \_\_\_\_\_ **CLASS:** \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES:**

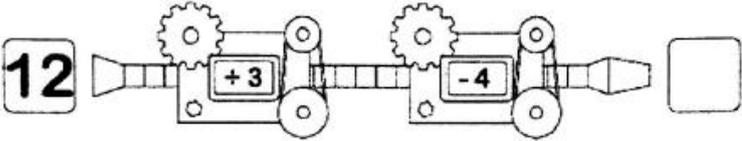
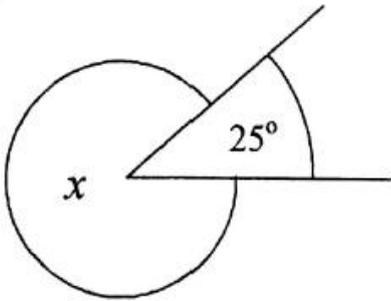
**Read all the questions carefully before you start answering.**

- Answer all questions.
- This paper carries 20 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.
- You are not required to show your working. However, space for working is provided if you need it.

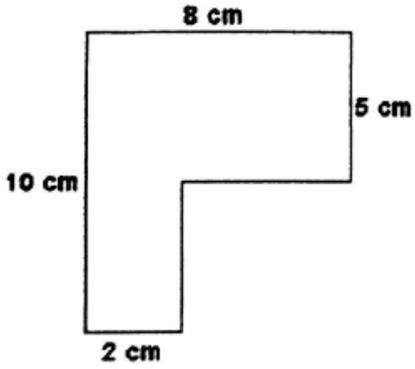


No.	Question	Space for working, if required.
1	Write the following number in words: <p style="text-align: center;"><b>10 550</b></p> <hr/> <hr/>	
2	Write in <b>figures</b> : Five thousand four hundred sixty four  Answer : _____	
3	What is the value of <b>5</b> in this number? <p style="text-align: center;"><b>1527</b></p> Answer : _____	
4	One of these numbers is a <b>prime number</b> . Which one is it?  A) 267    B) 765    C) 327    D) 37  Answer : _____	



5	<p>Fill in the missing number:</p> <p>10 15 ____ 25 30</p>	
6	<p>Write down the <b>output</b> of this number machine in the empty box.</p> 	
7	<p>Fill in the box.</p> $0.4 = \frac{\square}{5}$	
8	<p>Change this into an <b>improper</b> fraction.</p> $2\frac{2}{3} = \frac{\square}{3}$	
9	<p>Find the size of <math>x</math>.</p>  <p>Answer : _____</p>	



10	<p>Work out:</p> $216.3 \div 100$ <p style="text-align: right;">Answer: _____</p>	
11	<p>A stone weighs 2.36 kg.</p> <p>What is its weight in <b>grams</b>?</p> <p>A) 236      B) 23600      C) 0.236      D) 2360</p> <p style="text-align: right;">Answer: _____ g</p>	
12	<p><math>\frac{18}{30}</math> is equal to</p> <p>a) <math>\frac{3}{5}</math>,      b) <math>\frac{1}{3}</math>,      c) <math>\frac{8}{10}</math>,      d) <math>\frac{9}{11}</math></p> <p style="text-align: right;">Answer: _____</p>	
13	<p>Find the <b>perimeter</b> of this shape</p>  <p style="text-align: right;">Answer : _____</p>	
14	<p>Work out:</p> $9 - 15 = \underline{\hspace{2cm}}$	

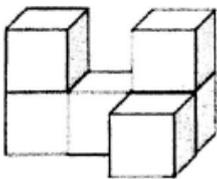


15 The turtle starts from the position shown.  
Sketch the figure drawn by the turtle for  
this set of LOGO commands:

**PD FD 100 RT 90 FD 50 RT 90 FD 100**

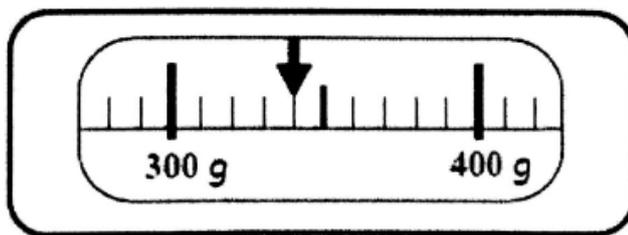


16 Each cube has side **2 cm**.  
What is the **volume** of the shape?



Answer : \_\_\_\_\_

17



Look at the diagram

The arrow is pointing at \_\_\_\_\_g



18	<p>Work out:</p> $2 \times (8 - 3) =$ <p style="text-align: right;">Answer : _____</p>	
19	<p>An aeroplane carries 160 passengers when <b>full</b>.</p> <p>How many passengers does the aeroplane carry when it is <math>\frac{3}{4}</math> <b>full</b>?</p> <p style="text-align: right;">Answer : _____</p>	
20	<p>Put these numbers in <b>ascending order</b> (smallest first):</p> <p style="text-align: center;">0.98      98      0.098</p> <p style="text-align: center;">_____</p>	

END OF PAPER





**KULLEG SAN BENEDITTU**  
**Boys Secondary School, Kirkop**



**HALF-YEARLY EXAMINATIONS – FEBRUARY 2014**

**FORM 4**

**MATHEMATICS** Scheme D

TIME: 1hr 40mins

**Main Paper**

Question	1	2	3	4	5	6	7	8	9	10	11	12	Main	NC	Global Mark
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 80 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. Are the following statements **True** or **False**?

a) 1 is a **cube** number. \_\_\_\_\_

b) 36 is a **square** number. \_\_\_\_\_

(2 marks)



2. Tom has the following answer on the calculator:

**1682.5432**

- a) This number correct to the **nearest 100** is \_\_\_\_\_ .
- b) This number correct to **one decimal place** is \_\_\_\_\_ .
- c) This number correct to **three decimal places** is \_\_\_\_\_ .
- d) This number correct to the **nearest 10** is \_\_\_\_\_ .
- e) This number correct to the **nearest 1000** is \_\_\_\_\_ .

(5 marks)

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3. a) **Work out** the following:

$$435 - 234 + 657 = \underline{\hspace{2cm}}$$

b) Two of the following numbers lie **between**  $\frac{1}{5}$  and  $\frac{9}{10}$

$$2\frac{1}{2} \quad \frac{3}{4} \quad 1 \quad \frac{4}{5}$$

The numbers are \_\_\_\_\_ and \_\_\_\_\_.

(4 marks)

4. a) Fill in the spaces

i. 2 litres = \_\_\_\_\_ ml

ii. 1900 ml = \_\_\_\_\_ litres

iii. \_\_\_\_\_ m = 10 cm

iv. 5 m = \_\_\_\_\_ mm

b) Match the following to their unit.

Fuel in a car	Kg
The mass of a mouse	Gram
The length of your thumb	Metre
Your mass	litre
The length of a playing field	cm
The medicine on a teaspoon	ml

(8 marks)

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5. Fill in using the numbers below:

**-4      -2      -7      -5      2      8**

a) \_\_\_\_\_ + 2 = 0

c)  $2 \times$  \_\_\_\_\_ = -14

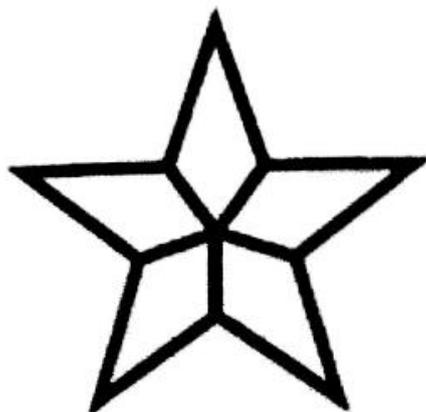
b) \_\_\_\_\_  $\div$  -4 = -2

d) \_\_\_\_\_ + -2 = -7

(4 marks)



6. a) Shade  $\frac{3}{5}$  of the shape.



b) Write as an equivalent fraction.

$$\frac{3}{5} = \frac{\square}{15}$$

c) Work out

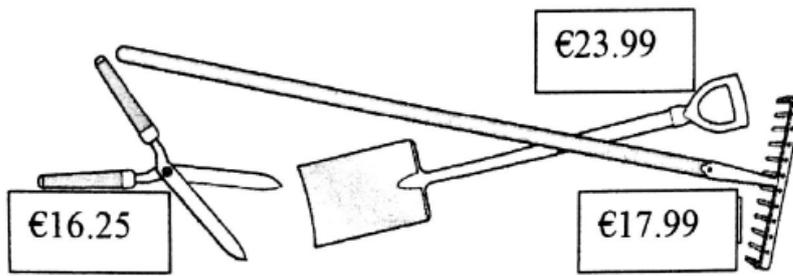
$$\frac{3}{5} - \frac{2}{15} =$$

Ans : \_\_\_\_\_

(4 marks)



7) a) John buys some tools for his garden.



How much does he spend altogether?

Ans : € \_\_\_\_\_

b) Here is a greengrocer's bill.

i) Complete it.

<b>3 lemons</b> at 21c each	
<b>4 grapefruit</b> at 35c each	
<b>1.5 kg potatoes</b> at €0.96 a kg	
TOTAL	€ _____

ii) What **change** does he get if he pays with a €20 note?

Ans : € \_\_\_\_\_

(9 marks)



8) In a Form 4 class:

**10% of the pupils have a dog.**  
**40% of the pupils have a cat.**  
**The rest have a fish.**

a) What is the percentage of pupils who do not have a dog?

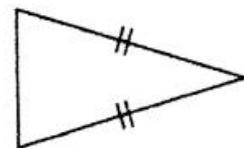
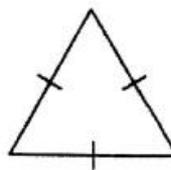
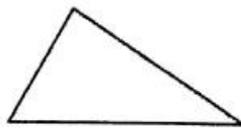
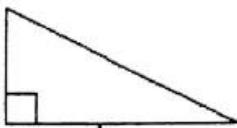
Ans : \_\_\_\_\_

b) In this class there are 20 pupils.  
Work out how many pupils have a fish.

Ans : \_\_\_\_\_

(5 marks)

9) Join each triangle to its correct name.



Scalene  
triangle

Isosceles  
triangle

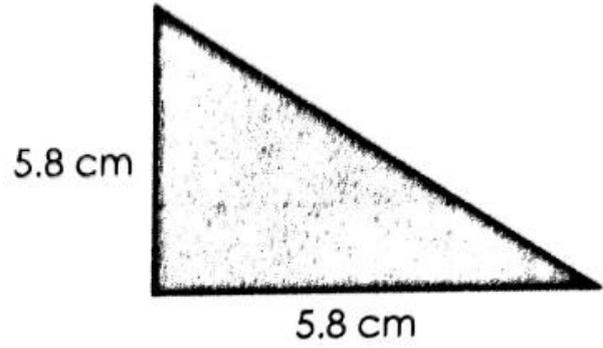
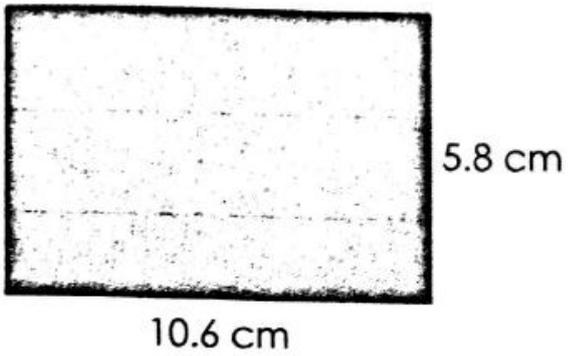
Right-angled  
triangle

Equilateral  
triangle

(2 marks)



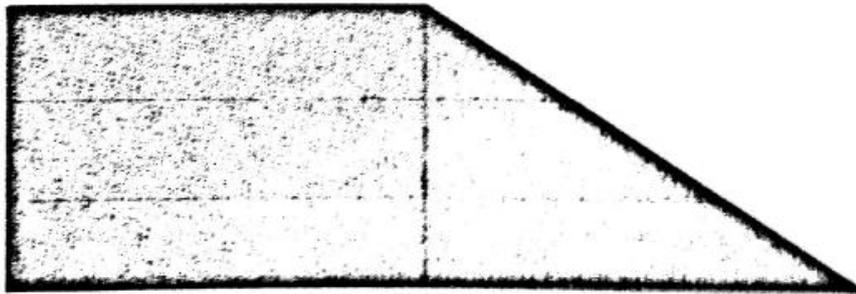
10) a) Find the **area** of the rectangle and triangle:



Answer \_\_\_\_\_  $\text{cm}^2$

Answer \_\_\_\_\_  $\text{cm}^2$

b) The rectangle and triangle are joined together to form this shape:

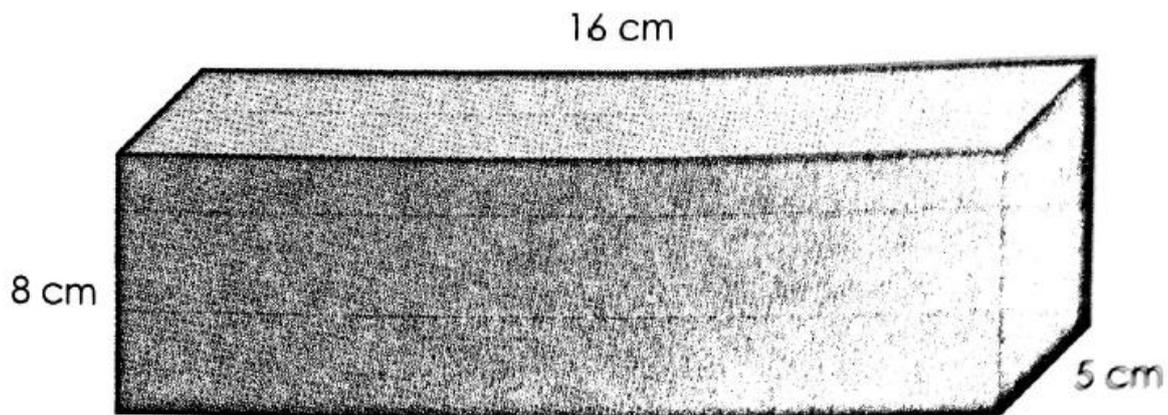


Find the **total area** of this shape:

Answer: \_\_\_\_\_  $\text{cm}^2$



c) Find the **volume** of the cuboid:

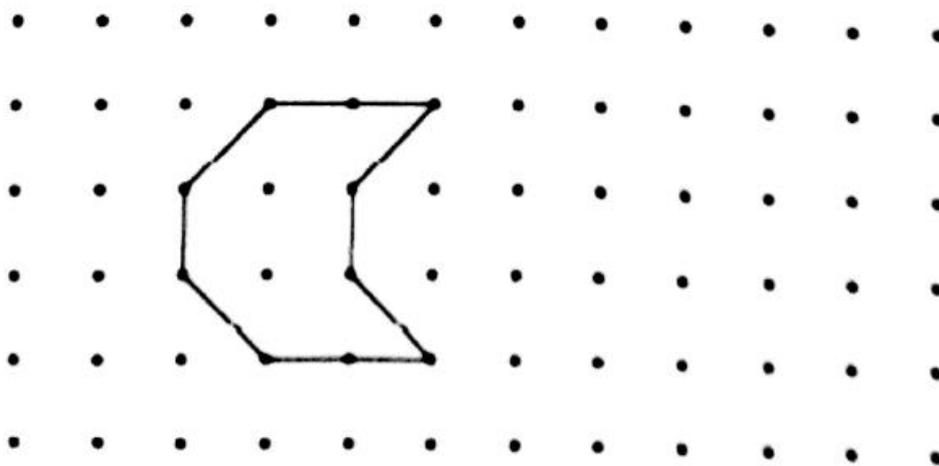


Answer: \_\_\_\_\_  $\text{cm}^3$

(8 marks)

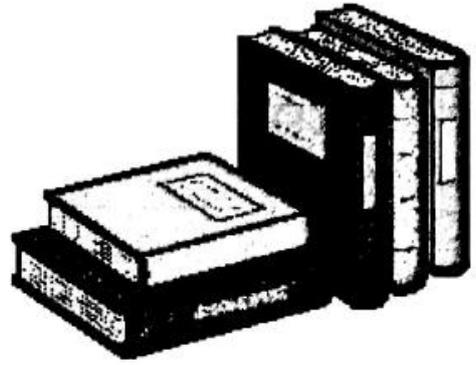
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11) Tessellate this shape two more times.



(3 marks)

- 12) Carla takes **five** books to school.  
These books and Carla's bag weigh  
**4.5 kg together.**



- a) The books weigh **750 g, 0.6 kg, 700 g, 420 g** and **1 kg**.

Work out the **total weight** of these **five books**.

Give your answer in **kg** and **g**.

Answer: \_\_\_\_\_kg \_\_\_\_\_g

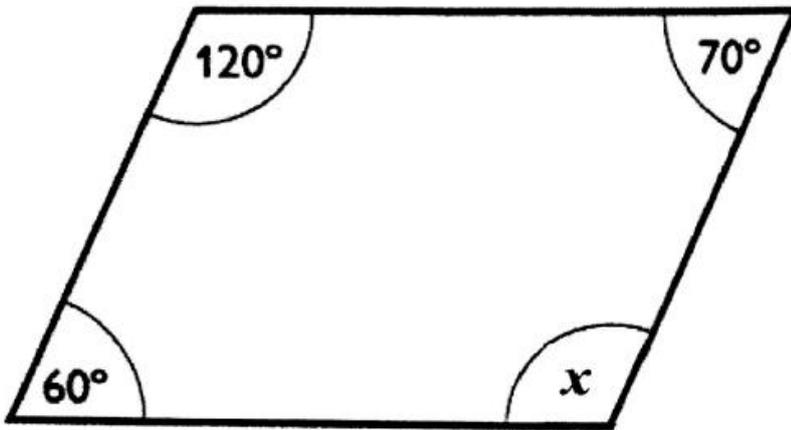
- b) Work out the **weight** of Carla's **empty bag**.

Answer: \_\_\_\_\_kg \_\_\_\_\_g

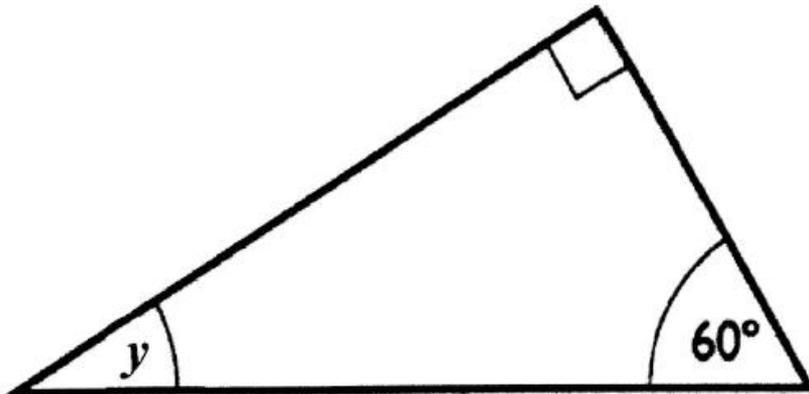
(5 marks)



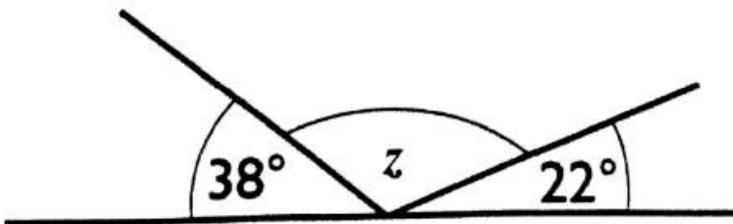
13) Find the **size** of each angle marked with a letter.



$x =$  \_\_\_\_\_  $^\circ$



$y =$  \_\_\_\_\_  $^\circ$

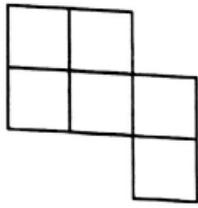


$z =$  \_\_\_\_\_  $^\circ$

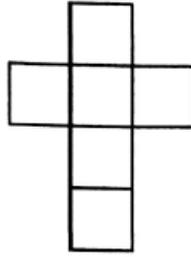
(9 marks)



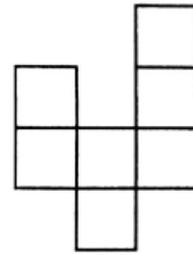
- 14) a) One of the nets shown is that of a cube. Which one is it?  
Tick (✓) the correct answer.



A



B



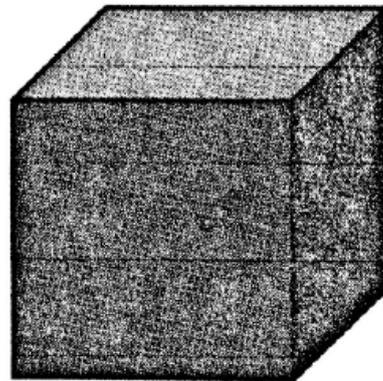
C

- b) **Fill in** : A cube has :

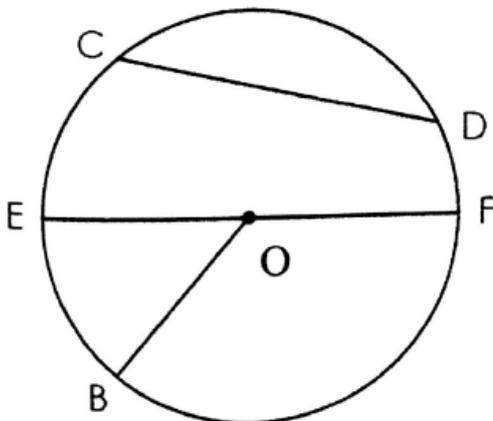
\_\_\_\_\_ faces

\_\_\_\_\_ edges

\_\_\_\_\_ vertices



- c) Look at the diagram and fill in the blanks.



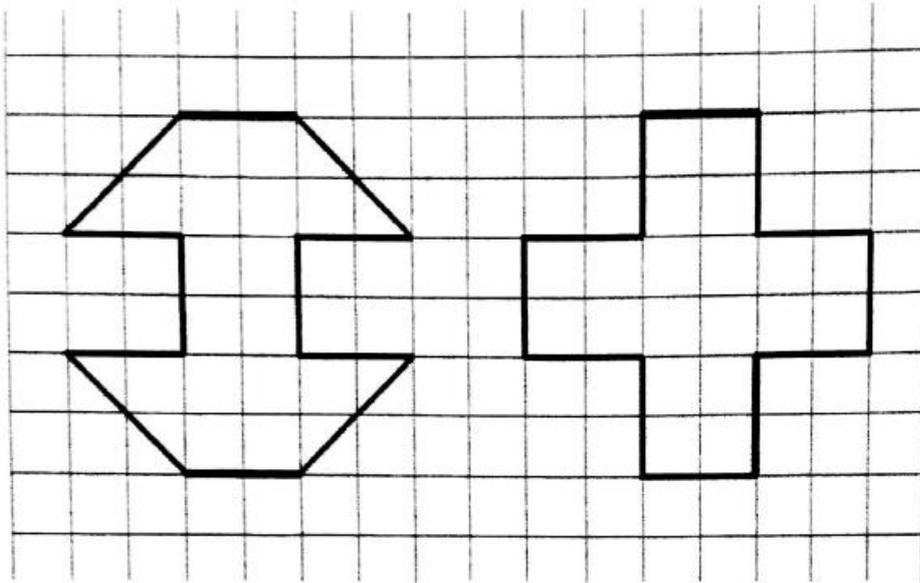
i. **OB** is called the \_\_\_\_\_.

ii. \_\_\_\_\_ is called the **diameter**.

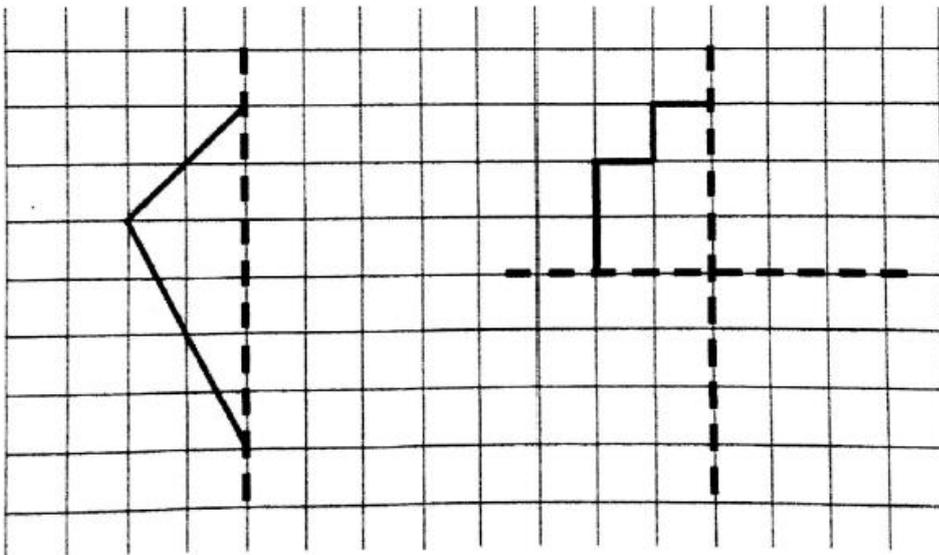
(6 marks)



15) a) Draw **all lines of symmetry** of the following shapes.



b) **Complete** the figures below to make them symmetrical about the dotted lines.



(6 marks)

END OF PAPER

