



FORM 3

MATHEMATICS  
 Main Paper

TIME: 45 min.

Question	1	2	3	4	5	6	7	8	9	10	Main	NC	Global Mark
Mark													

**DO NOT WRITE ABOVE THIS LINE**

**NAME:** \_\_\_\_\_ **CLASS:** \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES:**

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

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

1. a) Arrange these numbers in order, **smallest first**.

495      101      459      1001      39

\_\_\_\_\_

b) i) Use a **calculator** to work out:  $\frac{49.368 - 9.2}{0.05}$

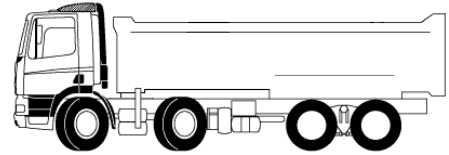
Ans: \_\_\_\_\_

ii) Write your answer in **(b)(i)** to the nearest **whole number**.

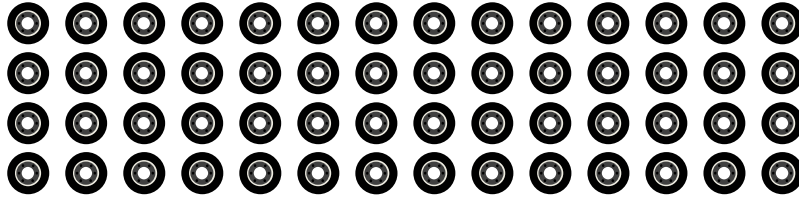
Ans: \_\_\_\_\_

(7 marks)

2. Laurence and Joseph make trucks.  
Each truck has **8 wheels**.



a) Laurence has **56 wheels**. How many trucks can he make?



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

b) Joseph makes **15 trucks**. How many wheels does he use?

Ans: \_\_\_\_\_ wheels  
(4 marks)

3.



**A**



**B**



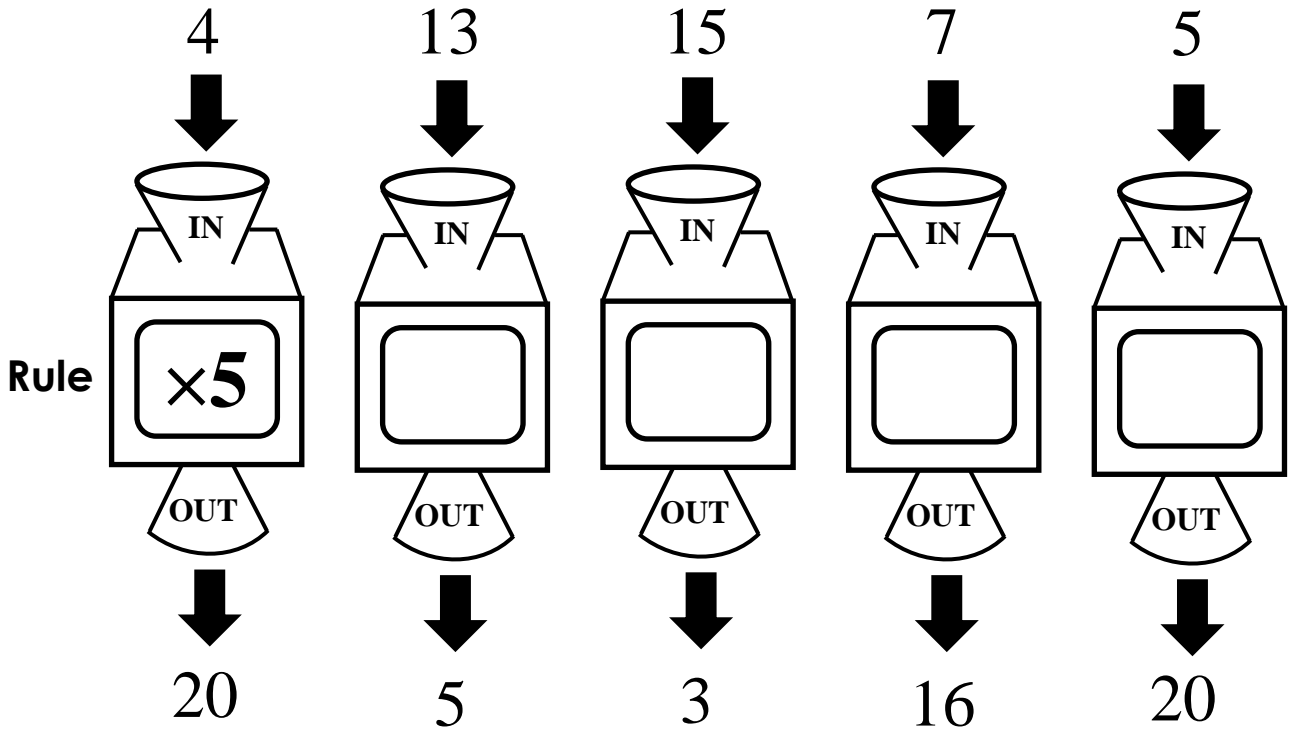
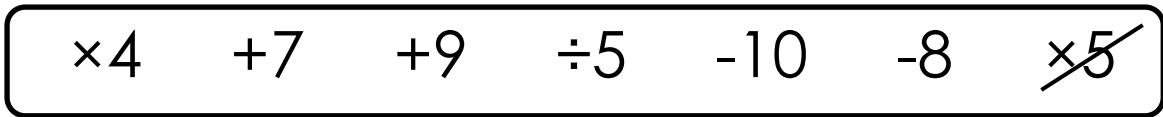
**C**

**Fill in:**

Solid	Name of Solid	Number of Faces	Number of Vertices	Number of Edges
A	Cylinder	3	_____	_____
B	Cuboid	_____	_____	12
C	_____	_____	1	_____

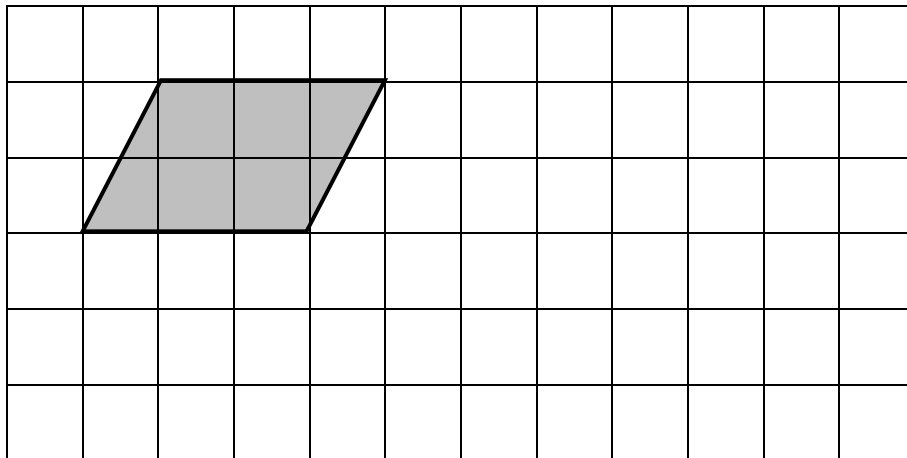
(7 marks)

4. **Fill in** the **rule** in the number machines. The first one is done for you.



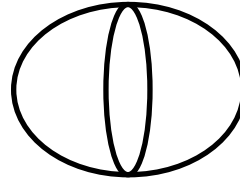
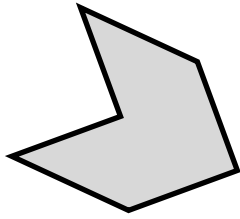
(8 marks)

5. Draw **another 2 parallelograms** to show that a parallelogram tessellates.

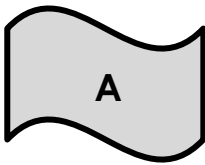


(4 marks)

6. a) i) **Draw** all lines of symmetry.

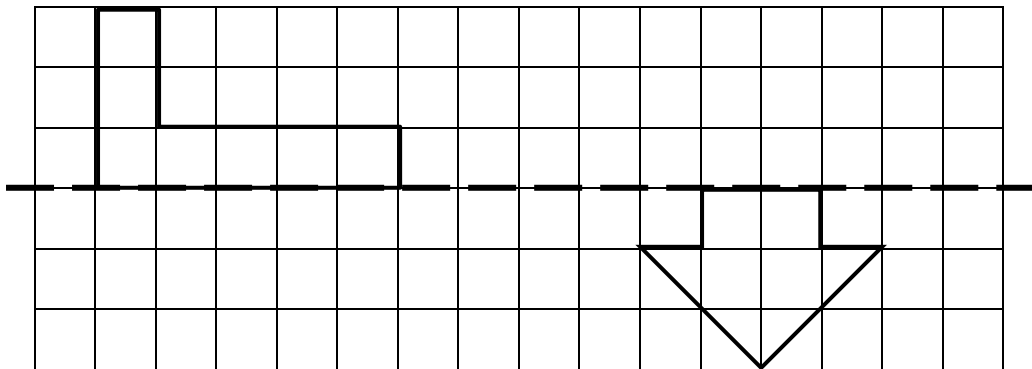


ii) **Underline** the correct answer:



Shape **A** has (no, one, two) lines of symmetry.

b) The dotted line below is a line of symmetry. **Complete** each shape.



(11 marks)

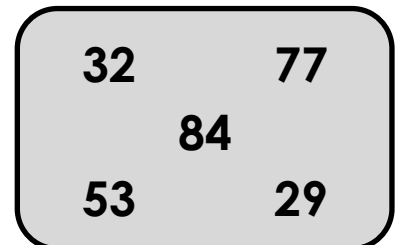
7. From these numbers, choose:

a) an **even** number = \_\_\_\_\_

b) an **odd** number **less than 50** = \_\_\_\_\_

c) a **multiple of 6** = \_\_\_\_\_

d) a number **greater than 60 but smaller than 80** = \_\_\_\_\_



(8 marks)

8. A shop sells stationary.



**Box of Crayons**  
€6.40



**Compasses**  
€2.25



**Biro**  
90c



**Scientific Calculator**  
€19.85

a) i) Kate buys the items below. Work out the **total cost**:

Items	Cost
2 boxes of crayons	
1 scientific calculator	
1 compasses	
<b>Total Cost:</b>	

ii) Kate pays with **four €10 notes**. How much change does she get?

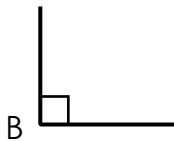
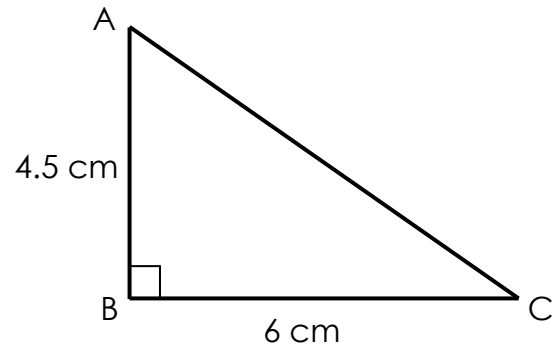
Ans: € \_\_\_\_\_

b) Tom has €3.50. How many biros can he buy?

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

(10 marks)

9. a) Using a ruler, **draw** and label triangle ABC as shown in the sketch. Point B is drawn for you.



b) **Underline** the correct answer:

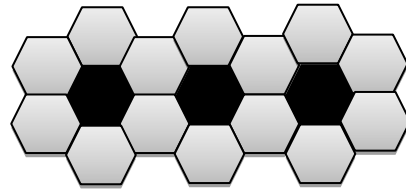
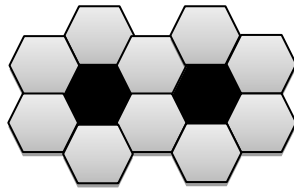
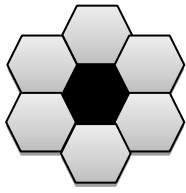
Triangle ABC is (an equilateral, an isosceles, a scalene) triangle.

c) **Measure** the length of side AC.

Ans: AC = \_\_\_\_\_ cm  
(7 marks)

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10. Pawlu makes a pattern with tiles. He wants to know how many **grey** tiles he needs for each **black** tile.



a) **Fill in** the table below:

Number of Black Tiles	Number of Grey Tiles
1	
2	
3	
4	

b) **Tick** (✓) the correct answer.

Pawlu is:

- subtracting 4 grey tiles each time.
- adding 4 grey tiles each time.

c) Pawlu has **26 grey tiles**. How many black tiles does he need?

Ans: \_\_\_\_\_ black tiles

(9 marks)

**END OF MAIN PAPER**