



FORM 3

MATHEMATICS  
Non-Calculator Paper

TIME: 30 minutes

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

DO NOT WRITE ABOVE THIS LINE

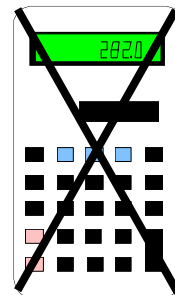
Name: \_\_\_\_\_

Class: \_\_\_\_\_

**INSTRUCTIONS TO CANDIDATES:**

Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 25 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**.

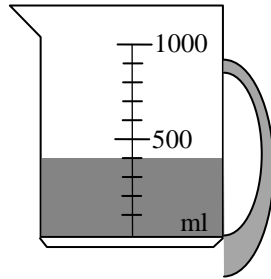


1. a) Fill in

i)  $1 \frac{1}{2}$  hr = \_\_\_\_\_ minutes

ii) \_\_\_\_\_ km = 2000 metres

b)



This jug has \_\_\_\_\_ ml of water.

(3 marks)

2. a) Work out:

i)  $\frac{4}{9} - \frac{2}{9}$

ii)  $\frac{1}{2} + \frac{2}{5} =$

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

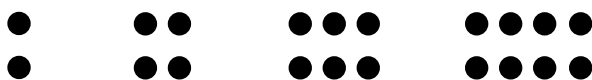
Ans: \_\_\_\_\_

b) Circle the **two** equivalent fractions:

$\frac{3}{4}$ ,  $\frac{1}{2}$ ,  $\frac{2}{7}$ ,  $\frac{4}{8}$ ,  $\frac{4}{3}$

(4 marks)

3. a) Draw the **next pattern**



Pattern 1

Pattern 2

Pattern 3

Pattern 4

b) How many dots are there in **Pattern 7**?

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

(2 marks)

4. a) Work out:

i)  $4 - 5$

ii)  $4 - (-5)$

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

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

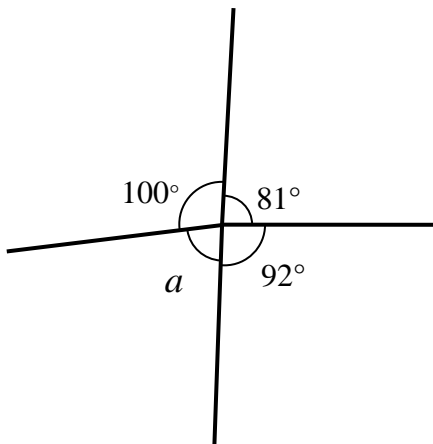
b) The weather temperature in the afternoon is **23 °C**. In the evening the temperature **drops by 2 °C**. What is the temperature in the evening?

Ans: \_\_\_\_\_ °C

(3 marks)

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5. Work out the size of **angle a**



Ans:  $a =$  \_\_\_\_\_ °

(2 marks)

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6. a) Fill in:

$$50\% = \frac{\boxed{\phantom{00}}}{100} = \frac{\boxed{\phantom{00}}}{2}$$

b) A jacket costs **€80 before** the sale.  
Work out its price **during** the sale.



**50%  
OFF**

Ans: € \_\_\_\_\_

(3 marks)

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7. Anna is solving the equation  $2a + 1 = 5$ . Her answer is  $a = 2$ .

Is her answer correct? **YES / NO**. Show your working.

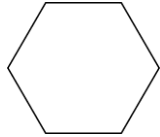
(2 marks)

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8. Underline **True** or **False**.

a) A **triangle** is a polygon with **three** sides. (True / False)

b) A **four** sided polygon is called a **pentagon**. (True / False)

c)  This shape is a regular **hexagon**. (True / False)

(3 marks)

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9. A bottle of cola costs €1 and a bottle of lemonade costs €2.

$c$  is the number of bottles of colas and  $\ell$  is the number of bottles of lemonades James buys.

The formula for the total money spent is

$TOTAL = 1c + 2\ell$
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a) Work out the TOTAL when James buys 3 colas and 4 lemonades.

Ans: € \_\_\_\_\_

b) How many colas and lemonades can James buy for a TOTAL of €7?

Ans: \_\_\_\_\_ colas and \_\_\_\_\_ lemonades

(3 marks)

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**END OF PAPER**