Please write clearly in block capitals

Surname: _____

First Name: _____

Teacher's Name: _____

Candidate's signature: _____

I declare this is my own work

Year 7 End of Year Assessment 2025 Maths



Core Paper 1: Non-Calculator

Time allowed: 50 minutes

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page.
- Answer **all** questions.
- Answer the questions in the spaces provided – there may be more space than you need.
- **Calculators may NOT be used.**
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- Use a pencil for diagrams/sketches/graphs.
- You must **show all of your working out**.

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
  – use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Mark:

Mathematics Mastery

Q1. Write the number twenty-three thousand and eighteen in figures.

.....

(1 mark)

Q2. Work out each of the following calculations.

(a) $231 + 146$

.....

(1)

(b) $361 - 235$

.....

(2)

(3 marks)

Q3. Write the following numbers in ascending order.

$$-2, \quad -5, \quad 4, \quad 0, \quad -9, \quad 3$$

.....

(1 mark)

Q4. (a) Simplify $x + x + x + x + x$

.....

(1)

(b) Simplify $2m + 3m - m$

.....

(1)

(c) Simplify $5a + 7b + 2a - 3b$

.....

(2)

(4 marks)

Q5. Write a number in the boxes below to make each calculation correct.

(a) $62 \times \square = 62{,}000$

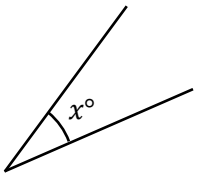
(1)

(b) $3025 \div 100 = \square$

(1)

(2 marks)

Q6. (a) Declan has used a protractor to measure the angle below.
He thinks the angle is $150°$.



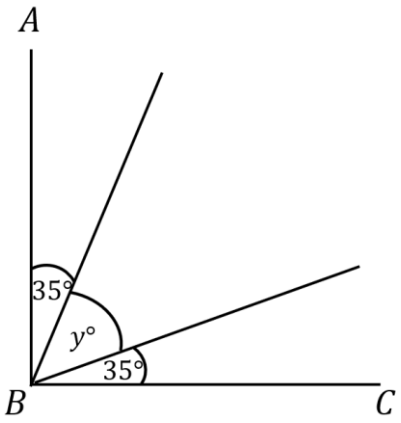
How do you know Declan is incorrect?

……

……

(1)

(b) AB and BC are perpendicular lines. Find the value of y.



…….°

(2)

(3 marks)

Q7.

(a) Work out $\frac{2}{7} + \frac{3}{7}$

.....
(1)

(b) Work out $\frac{3}{4} - \frac{1}{8}$

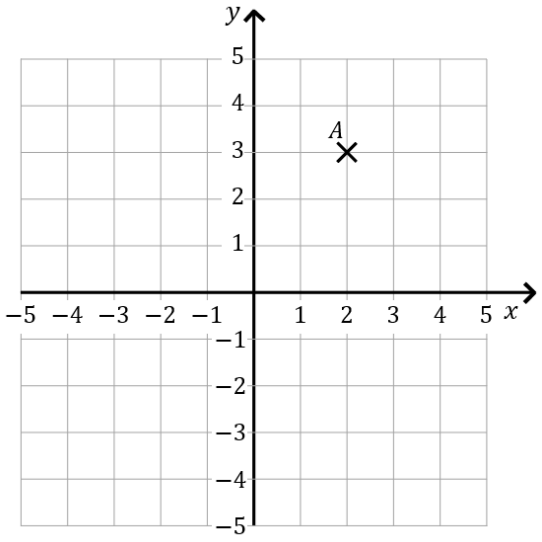
.....
(2)
(3 marks)

Q8. Work out 4×-3

.....
(1 mark)

Q9. Look at this graph:

(a) Write down the coordinates of point A.



(..... , ...)
(1)

(b) On the grid, mark with a cross (X) the point $(-2, 1)$.
Label this point B.

(1)

(c) On the grid, draw the line with equation $x = 4$

(1)

(3 marks)

Q10. Tabitha is calculating 4^2.

They get an answer of 8.

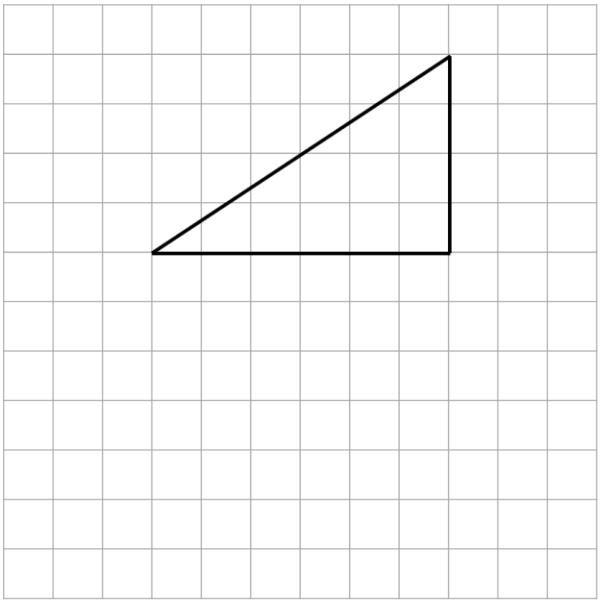
What mistake has Tabitha made?

……

……

(1 mark)

Q11. Here is a triangle drawn on a centimetre grid.



On the grid, draw a rectangle with the same area as this triangle.

(2 marks)

TURN OVER FOR THE NEXT QUESTION

Q12. Sophie buys:

1 box of cereal for £1.20.

1 carton of orange juice for 70p.

2 packets of biscuits for £2.30 each.

Sophie pays with a £10 note.

She says, "I should get £3.30 change."

Do you agree with Sophie?

Show how you get to your answer.

……

(3 marks)

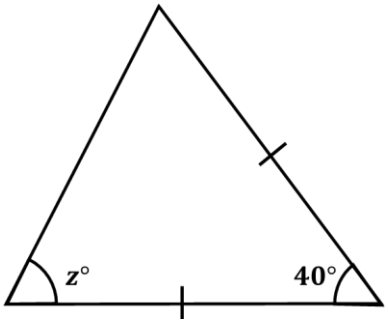
Q13. Using the fact $96 \times 240 = 23040$

Write down the answer to 9.6×240

……

(1 mark)

Q14. Look at the triangle below.



(a) Jessica says "$z = 40°$ because base angles in an isosceles triangle are equal."

Jessica is incorrect.

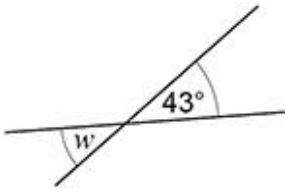
Explain why.

……

……

(1)

(b) Here are two straight lines.



Write down the size of angle w.

……..°

(1)

(2 marks)

Q15. The temperature in Birmingham is $-5℃$

(a) In Manchester, it is $3℃$ colder than the temperature in Birmingham.

What is the temperature in Manchester?

……℃

(1)

(b) The temperature is $8℃$ warmer in London than it is in Birmingham.

What is the temperature in London?

……℃

(1)

(2 marks)

Q16. Are $\frac{6}{8}$ and $\frac{15}{20}$ equivalent fractions?

Explain how you know.

……

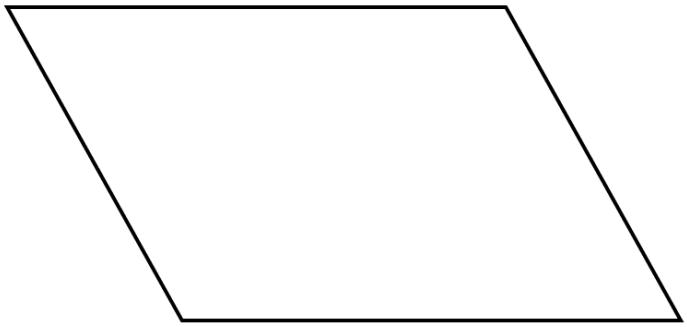
……

……

……

(1 mark)

Q17. Here is a parallelogram.



What is the order of rotational symmetry of the parallelogram?

.....

(1 mark)

Q18. Aliyah wants to work out the square root of 36.

Here is her working:

$$\sqrt{36} = 36 \div 2 = 18$$

Aliyah is incorrect.

Where is the mistake in Aliyah's method?

.....

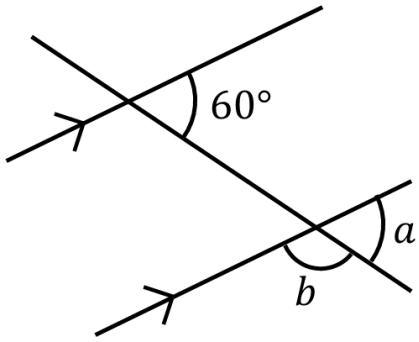
.....

.....

.....

(1 mark)

Q19.



(a) Write down the size of the angle marked a.

(i) $a =$ ……°

(1)

(ii) Give a reason for your answer.

……

……

(1)

(b) Work out the size of the angle marked b.

(i) $b =$ ……°

(1)

(ii) Give a reason for your answer.

……

……

(1)

(4 marks)

Q20. Lana is saving her pocket money in a jar.

Here is the jar Lana is using.



The jar holds £48 when it is full.

The jar is $\frac{1}{4}$ full.

How much more money does Lana need to save to fill the jar?

£……

(3 marks)

Q21. Zaki is thinking of a number.

Zaki says: "My number is a factor of 30. It is even and a multiple of 3."

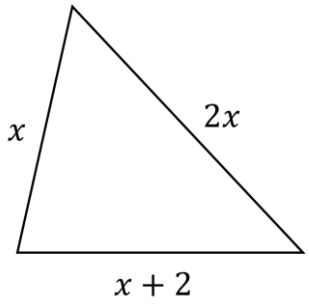
There are two possible numbers Zaki could be thinking of.

Write down the two numbers.

…… and ……

(3 marks)

Q22. Look at the triangle below.



(a) Write an expression for the perimeter of the triangle.

(1)

The perimeter of the triangle is $14cm$.

(b) Find the length of each side.

……cm , ……cm , ……cm

(3)

Cala thinks this is a scalene triangle.

(c) Do you agree with Cala? Give a reason for your answer.

……

……

……

(1)

(5 marks)

End of Assessment