

United Curriculum

End-of-Year Assessment 2023-24

Mathematics

Time: 1 hour

Year 7

Paper 2 – Non-calculator assessment

Student surname:

Student first name(s):

Class Name / Number:

You must have: a pencil, tracing paper and a protractor.

Instructions

- Fill in the boxes on the front page.
- Use a black ink pen. Draw diagrams in pencil.
- Do not use a calculator.
- The marks for each question are shown.
- Answer the questions in the space provided.
- Show **clearly** how you work out your answer.
- Do all rough work in this book. Cross through any work you do not want to be marked.



Advice

- Read each question carefully before you begin.
- Try your best to answer every question. If you have time, go back and review your answers.

For Teacher use only:

TOTAL MARKS		PERCENTAGE
	60	

Question 1

Write the number four million in figures.

Answer =

.....

	1
--	---

Question 2

Here are three angles. Label each one from the list below.

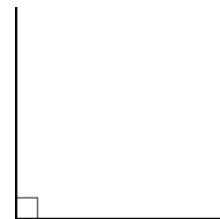
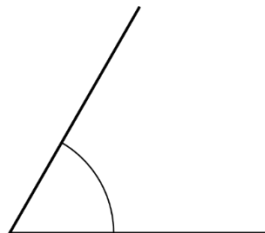
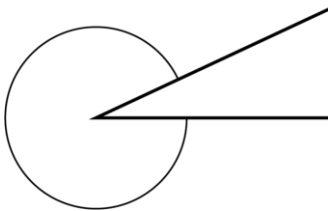
Acute

Right angle

Isosceles

Reflex

Obtuse



.....

.....

.....

	2
--	---

Question 3

Calculate

$$79 + 27$$

Answer =

.....

	1
--	---

Question 4

Each child at a party takes home 8 sweets.

There are 7 children at the party.

How many sweets were taken home in total?

Answer =

	1
--	---

Question 5

Round

5a. 18 753 to the nearest 100.

Answer =

	1
--	---

5b. 217.34 to the nearest integer.

Answer =

	1
--	---

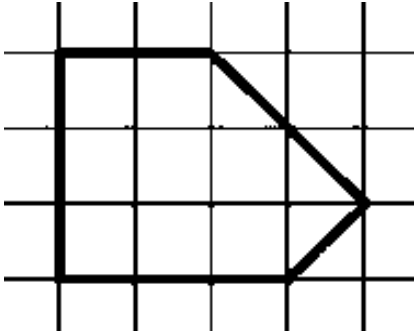
5c. 0.30597 to three decimal places.

Answer =

	1
--	---

Question 6

A shape is shown below. It is drawn on a cm square grid.



6a. Name the shape.

Answer =

	1
--	---

6b. What is the shape's area?

Answer = cm^2

	1
--	---

Question 7

Pupil A says:



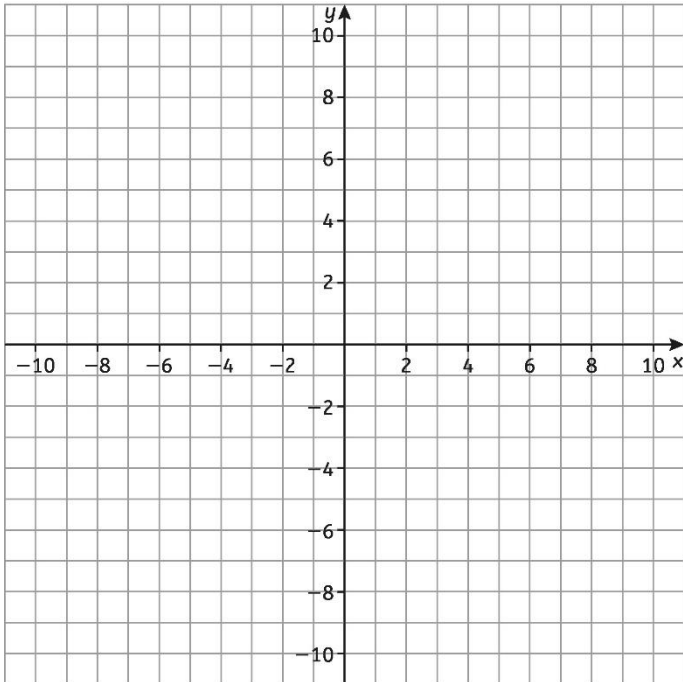
21 is a prime number as it only has two factors 3 and 7.

Explain why pupil A is wrong.

	1
--	---

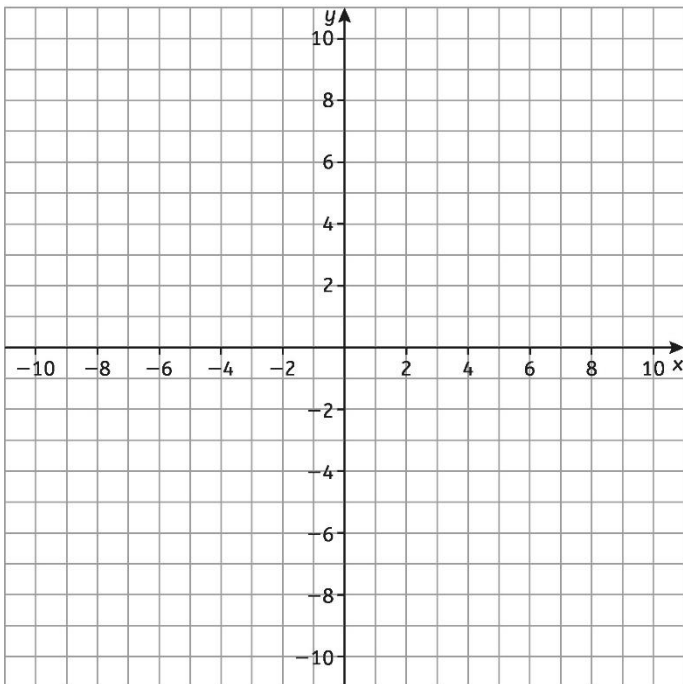
Question 8

8a. Draw the line $x = 6$



	1
--	---

8b. Draw the line $y = x$

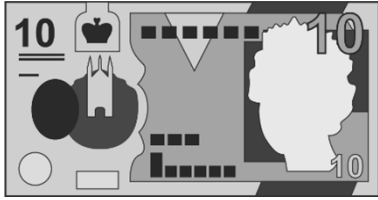


	1
--	---

Question 9

9a. How much money is shown below?

Give your answer in pounds.



Answer = £

	1
--	---

9b. Sandeep has four coins.

She has £1.15 in total.

What coins could Sandeep have?

Answer =

	1
--	---

Question 10

Calculate

$$1058 - 379$$

Answer =

	2
--	---

Question 11

Work out

$$1 - \frac{5}{8}$$

Answer =

	1
--	---

Question 12

12a. Find the highest common factor of 15 and 30.

Answer =

	2
--	---

12b. Find the lowest common multiple of 12 and 20.

Answer =

	2
--	---

Question 13

Circle the fraction with the largest value.

13a.

$$\frac{1}{13}$$

$$\frac{1}{20}$$

13b.

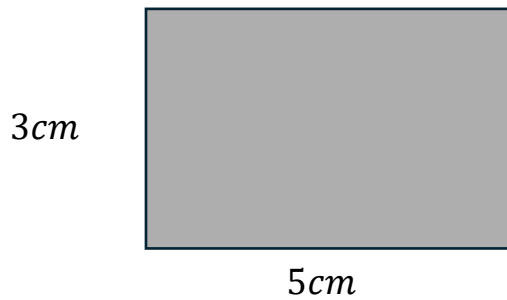
$$\frac{9}{17}$$

$$\frac{11}{17}$$

	2
--	---

Question 14

Find the area of the rectangle.

Answer = cm^2

	1
--	---

Question 15Given that $a = 3$ and $b = 7$

15a. Work out

ab

Answer =

	1
--	---

15b. Work out

a^2

Answer =

	1
--	---

15c. Work out

$a - b$

Answer =

	1
--	---

Question 16

Factorise fully

16a.

$$4x - 12$$

Answer =

	1
--	---

16b.

$$a^2 + 3a$$

Answer =

	1
--	---

Question 17

Work out

$$2\frac{8}{9} - 1\frac{1}{3}$$

Give your answer as a mixed number.

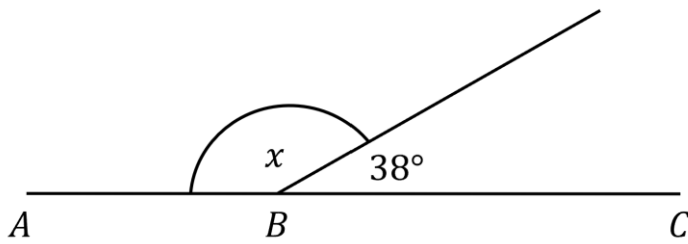
Answer =

	2
--	---

Question 18

ABC is a line segment.

Find x .

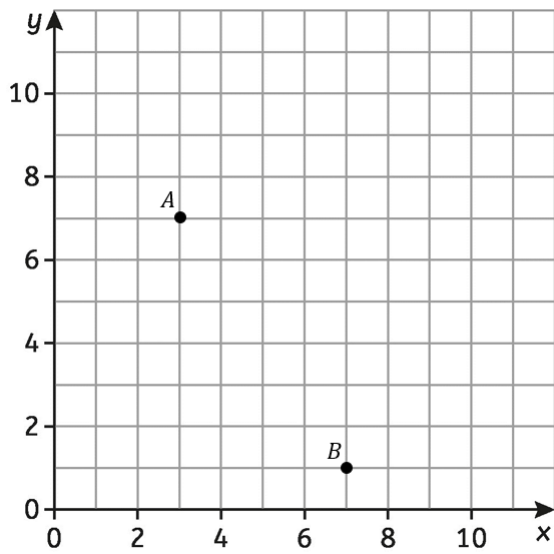


Answer = _____ °

	1
--	---

Question 19

Two coordinates, A and B , are shown on the grid below.



19a. Plot coordinate C , such that ABC creates a right-angled triangle.

	1
--	---

19b. Find the coordinates of the midpoint of line segment AB .

Answer =

	2
--	---

Question 20

Simplify fully

20a. $9x + 11y - x + 2y$

Answer =

.....

	2
--	---

20b.

$$\frac{24k^2}{6k}$$

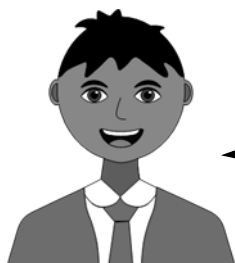
Answer =

.....

	2
--	---

Question 21

Pupil B is describing the diagonals of a quadrilateral.



They are unequal in length.
They are perpendicular.
They bisect each other.

Write down the name of the quadrilateral being described.

Answer =

.....

	1
--	---

Question 22

Solve

22a. $x + 7 = 13$

 $x =$

.....

	1
--	---

22b. $\frac{x}{9} = 5$

 $x =$

.....

	1
--	---

Question 23

23a. Shaliza earns £1440 a month.

Each month she spends $\frac{1}{12}$ of this on food shopping.

How much money does she spend on food shopping each month?

Answer = £

	1
--	---

23b. Marleen gets $\frac{3}{4}$ of the questions correct in a test.

Her score was 15.

What was the test out of?

Answer =

	2
--	---

Question 24

Work out

$$76.8 \div 0.06$$

Answer =

	2
--	---

Question 25Rearrange the formula below to make a the subject.

$$F = ma$$

Answer =

	1
--	---

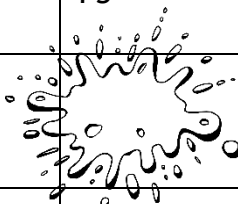
Question 26

Mary recorded the time it took her friend to run laps around an athletics track.

Mary then calculated her friend's **mean** time taken.

She has spilt some milk on her work.

Help Mary find the missing value.

Lap	Time taken (seconds)
1	75
2	
3	82
Mean average	76

Answer =

	3
--	---

Question 27

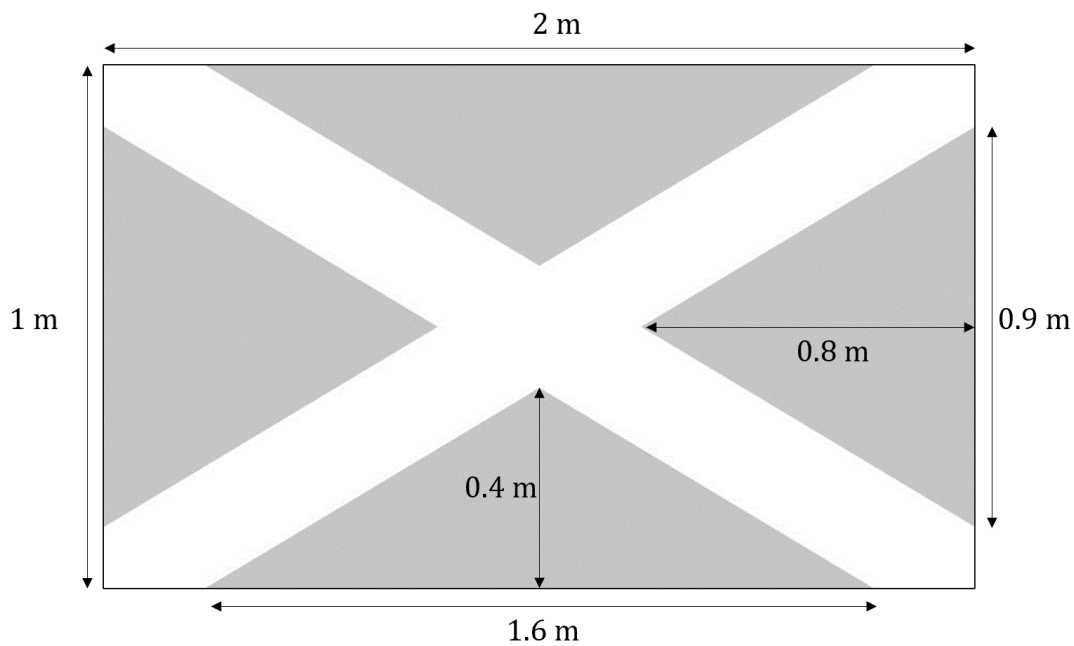
Here is an image of the Scottish flag.

The flag has two lines of symmetry.

The shaded areas need to be painted blue.

Zoe has enough paint to cover 1.5 m^2 .

Does Zoe have enough paint to complete the flag?



Answer =

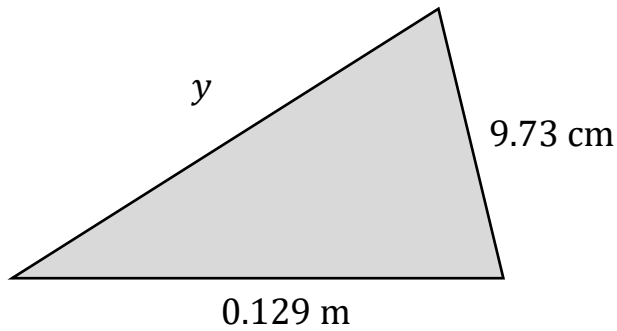
	4
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Question 28

The triangle below has a perimeter of 358.3 mm.

Find the length of the side marked y .

Give your answer in kilometres.



Answer = _____ km

	4
--	---

END OF ASSESSMENT

This is the end of the assessment.
There are no questions printed on this page.

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