2025 national curriculum tests

Key stage 2

Mathematics

Paper 2: reasoning

MODIFIED LARGE PRINT

First name _____

Middle name _____

Last name _____

Date of birth **Day** _____ **Month** _____ **Year** _____

School name _____

DfE number _____

Note to markers

This paper should be marked using the standard mark schemes for KS2 Mathematics: Paper 2. There is additional guidance on marking some questions in this paper in the Key stage 2 Mathematics amendments to mark schemes – MLP document.

STA/25/8918/MLp

Instructions

You must not use a calculator to answer any questions in this test.

Questions and answers

You have 40 minutes, plus your additional time allowance, to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use any space on the page.

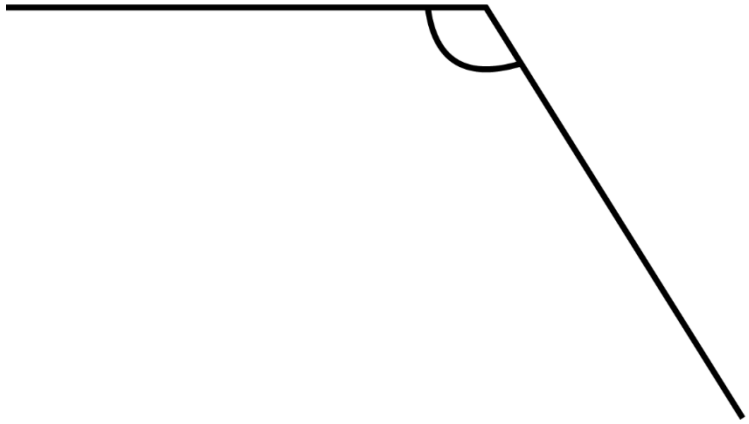
Method questions

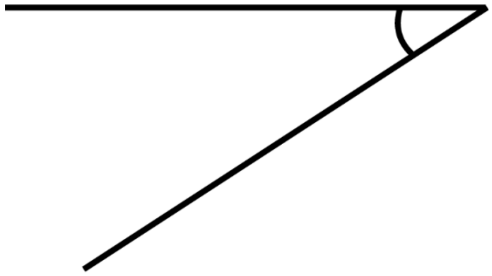
Some questions say: 'Show your method.' For these questions, you may get a mark for showing your method.

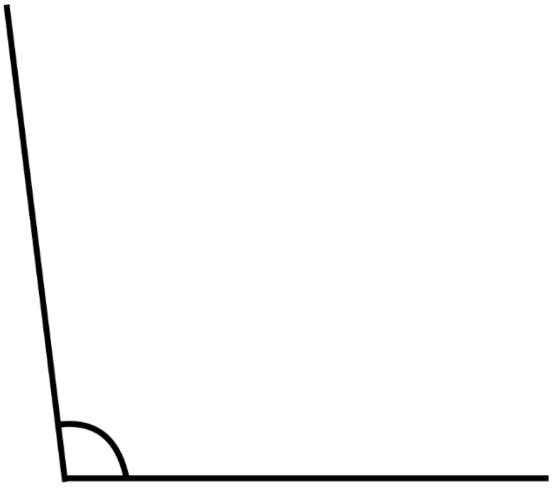
If you cannot do a question, go on to the next one. You can come back to it later, if you have time.

If you finish before the end, go back and check your work.

1. **Look at the four angles below.**
Tick or mark the angle that is closest in size to a right angle.







2. **Look at the diagram below. It shows part of a number grid with some missing numbers.**

Add 1000 →

Add 100 ↓

P			
5 350	**6 350**		
5 450	**6 450**	**7 450**	
		7 550	**Q**

Write the missing numbers P and Q.

P _____

Q _____

3. **Layla's money**

£2
50p
20p

Adam's money

50p
50p
50p
20p
20p

How much more money does Layla have than Adam?

_____

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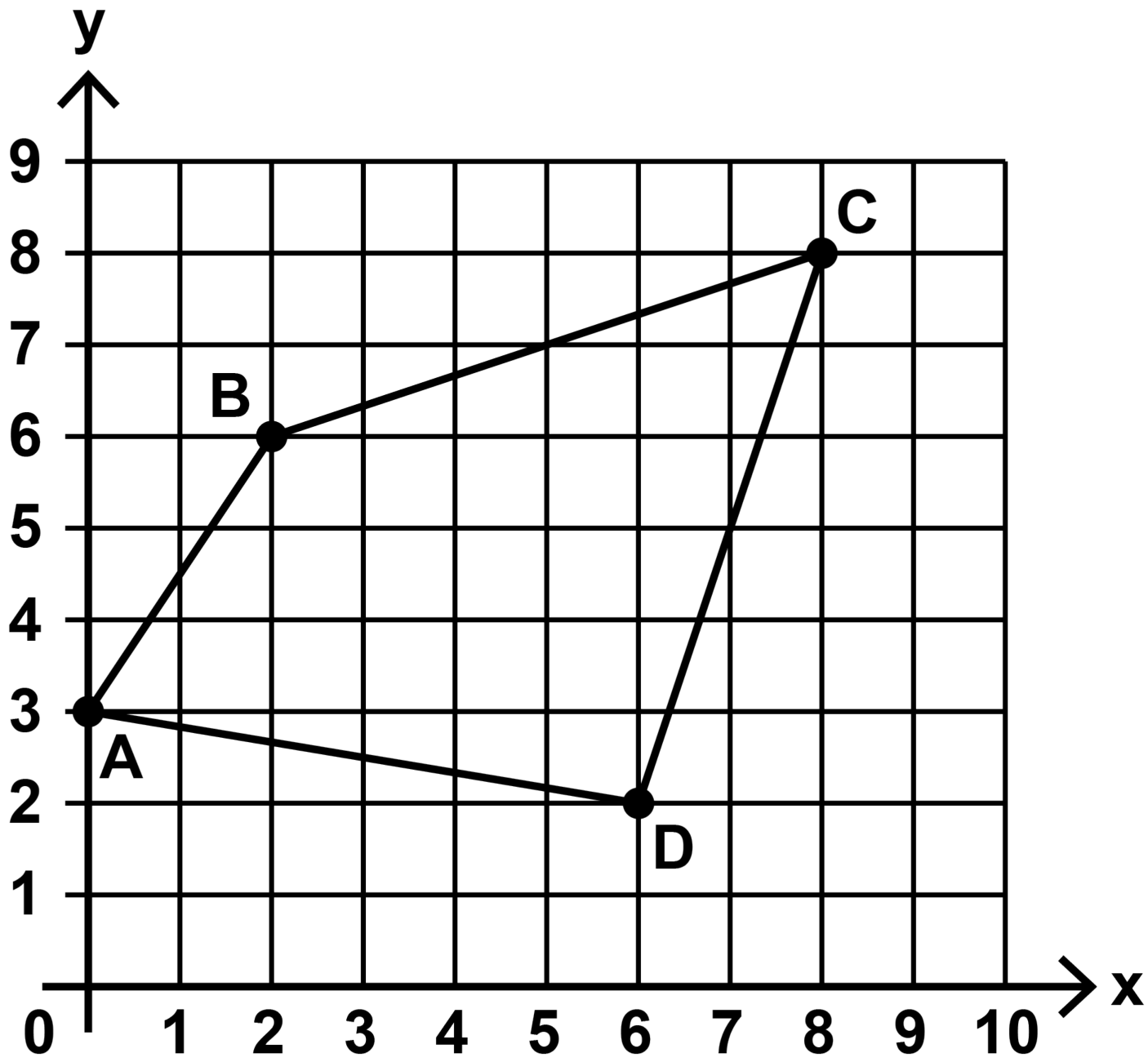
The test continues on the next page.

4. **Look at the diagram on the opposite page.**

Match each point to its coordinates.

A	**(6, 2)**
B	**(2, 6)**
C	**(0, 3)**
D	**(8, 8)**


y
9
8
7
6
5
4
3
2
1
0
1
2
3
4
5
6
7
8
9
10
x
A
B
C
D

5. **Olivia counts in eights, starting at zero.**

Tick or mark all the numbers Olivia should say.

24

42

78

112

6. **Look at the number below.**

5 639 728

(a) **Which digit is in the hundred thousands place?**

_____

(b) **Write the number that is two thousand more than 5 639 728**

_____

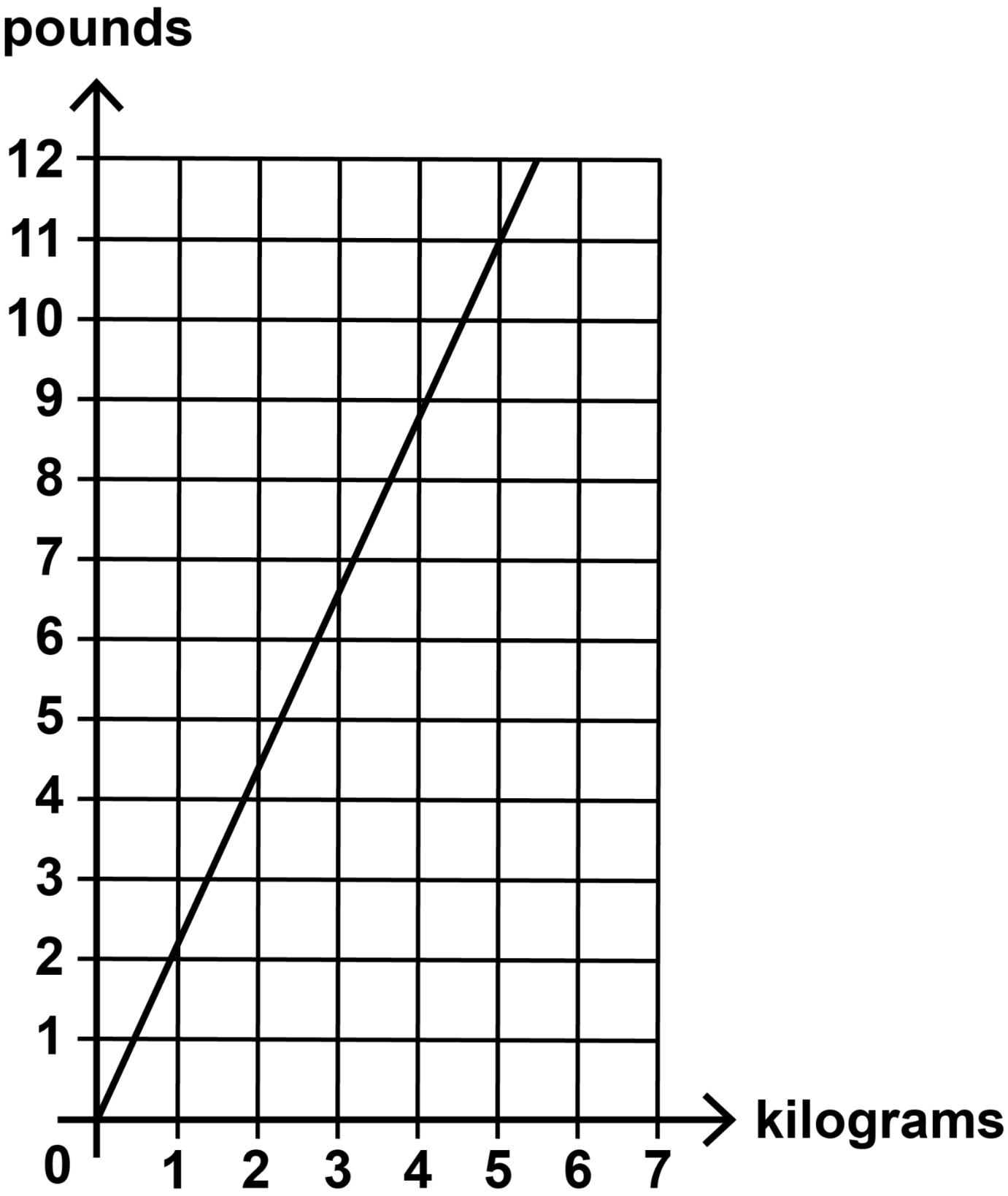
7. **Look at the graph on the opposite page. It is for converting kilograms and pounds.**

(a) **Use the graph to convert 5 kilograms to pounds.**

_____ **pounds**

(b) **Use the graph to convert 7 pounds to the nearest kilogram.**

_____ **kg**


pounds
12
11
10
9
8
7
6
5
4
3
2
1
0
1
2
3
4
5
6
7
kilograms

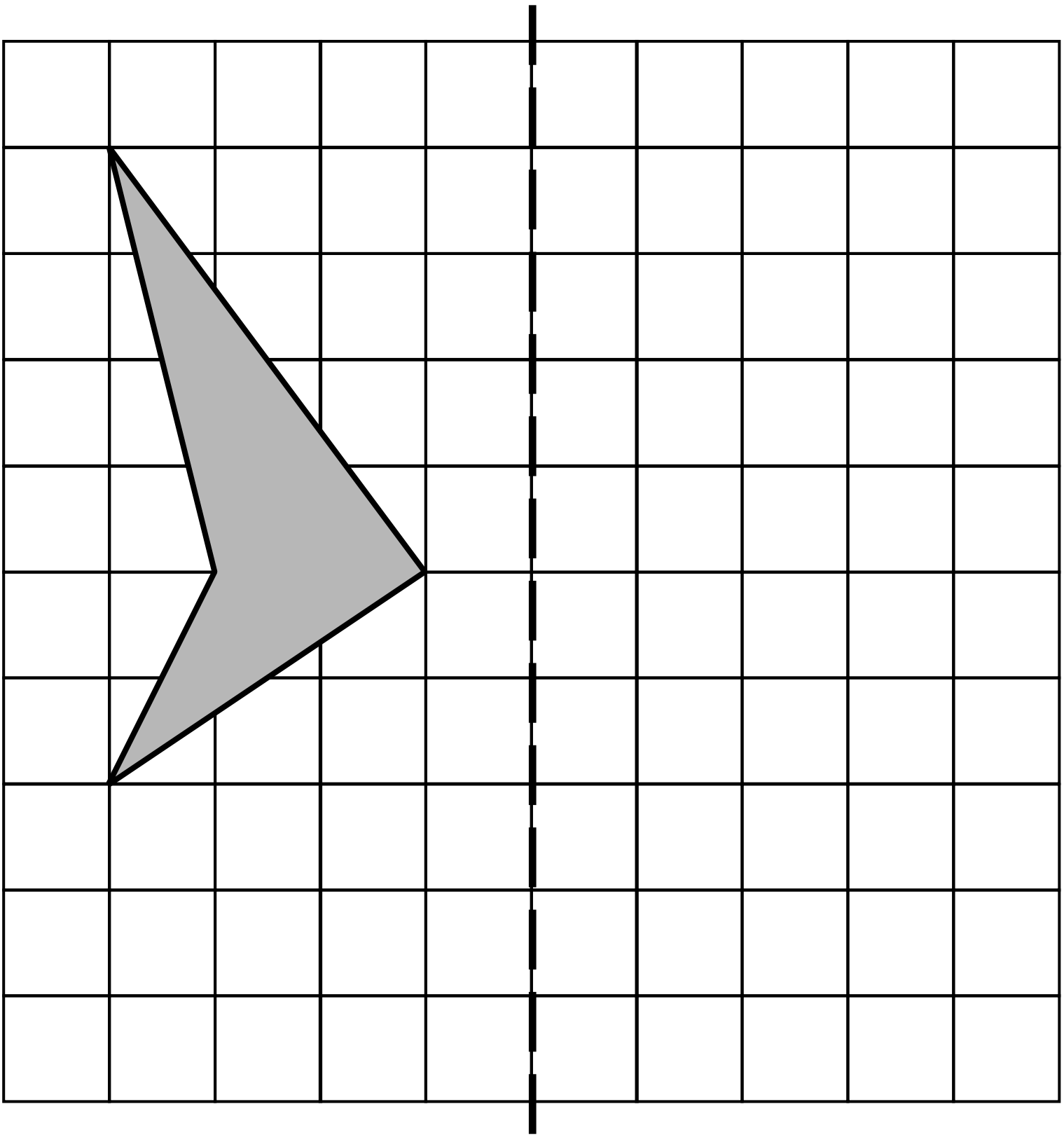
8. **You have a shape for this question.**

Look at the shape on the opposite page.

Draw the reflection of the shaded shape about the mirror line.

Use a ruler.

mirror line



9. **Ali has 35 red counters.**
He divides them into groups of 3

What is the greatest number of groups of 3 he can make?

_____

Maria has 35 green counters.
She divides them into groups of 4

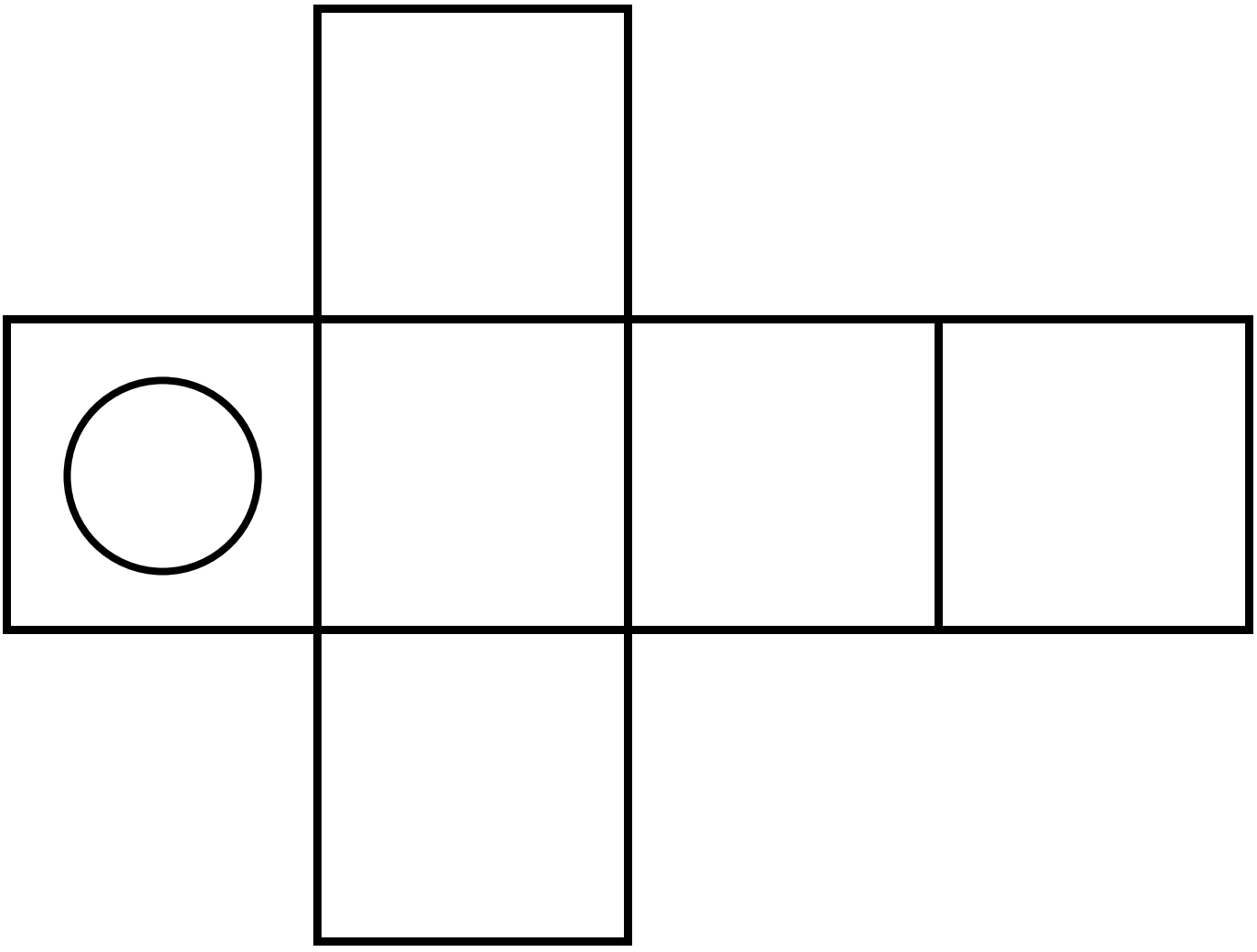
How many green counters does she have left over?

_____

10. Olivia is making a cube from a net.

She wants the cube to have two circles on opposite faces.

Tick or mark the face that Olivia should draw the circle on to complete the net.



11. **The total distance from Paris to Munich by road is 860 kilometres.**

There are three sections.

The distance from Paris to Metz is 331 km.

The distance from Metz to Stuttgart is 295 km.

Stuttgart to Munich is the last section.

How many kilometres is the last section from Stuttgart to Munich?

Show your method.

_____ **km**

12. **Amina says 600 millimetres is longer than 1 metre.**

Amina is not correct.

Explain how you know.

13. Jack buys four concert tickets.
Each ticket costs £28

One calculation Jack could use to work out the total cost is

28 + 28 + 28 + 28

Tick or mark each calculation below that Jack could use to work out the total cost.

(20 × 4) + (8 × 4)

(4 × 20) + 8

(4 × 30) − (4 × 2)

(4 × 30) − 2

14. **The table on the opposite page shows the distances Kirsty cycled last week.**

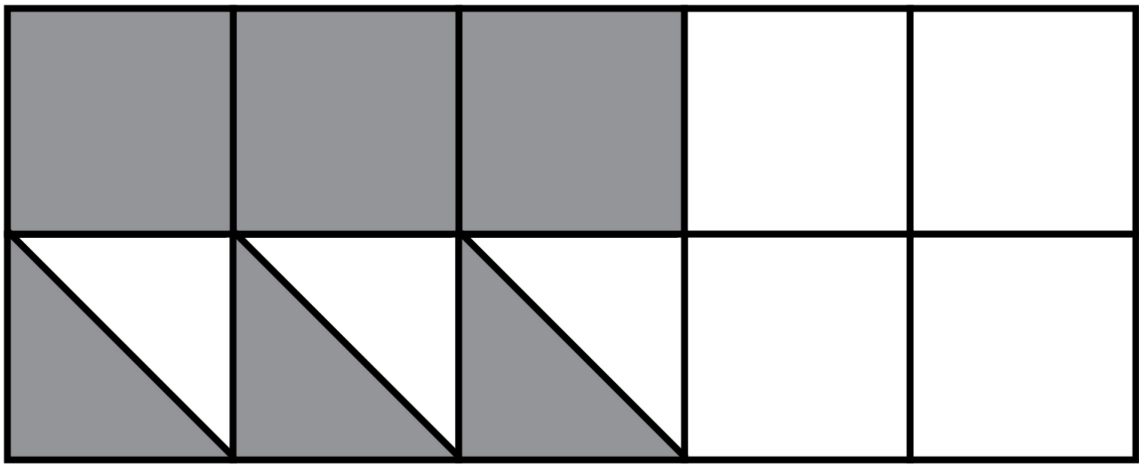
What is the total distance Kirsty cycled last week?

Show your method.

_____ **miles**

Day	Miles		
Monday	4·3	4·3	–
Tuesday	4·3	4·3	–
Wednesday	4·3	2·6	3·1
Thursday	4·3	4·3	–
Friday	4·3	2·6	3·1

15. Here is a diagram made from ten squares.



What percentage of the diagram is shaded?

_____%

16. There are two boxes.

The mass of the first box is

$1\frac{1}{4}$ kilograms.

The mass of the second box is

1·4 kilograms.

What is the difference in mass of the two boxes?

Give your answer in kilograms.

Show your method.

_____ kg

17. **A 4 kilogram bag of rice costs £6**

What is the cost of 500 grams of the rice?

_____

18. **Tick or mark the fractions that are greater than $\frac{2}{3}$**

$\frac{5}{6}$

$\frac{4}{9}$

$\frac{9}{12}$

$\frac{11}{15}$

$\frac{10}{21}$

19. The total cost of a school trip for 12 pupils is £780

The total cost includes travel, food and hotel.
For one pupil, the travel cost is £27 and the food cost is £16

How much is the hotel cost for one pupil?

Show your method.

£ _____

20. **Sophie thinks of two prime numbers.**

She adds them together.

Her answer is 24

Write the three different pairs of prime numbers that Sophie could think of.

	and	
	and	
	and	

21. **The mass of a 1p coin is 3·56 g**

The mass of a 10p coin is 6·5 g

What is the difference in mass between £1 in 1p coins and £1 in 10p coins?

Show your method.

_____ g

22. **A cuboid has these measurements:**

Height: 2 **cm**

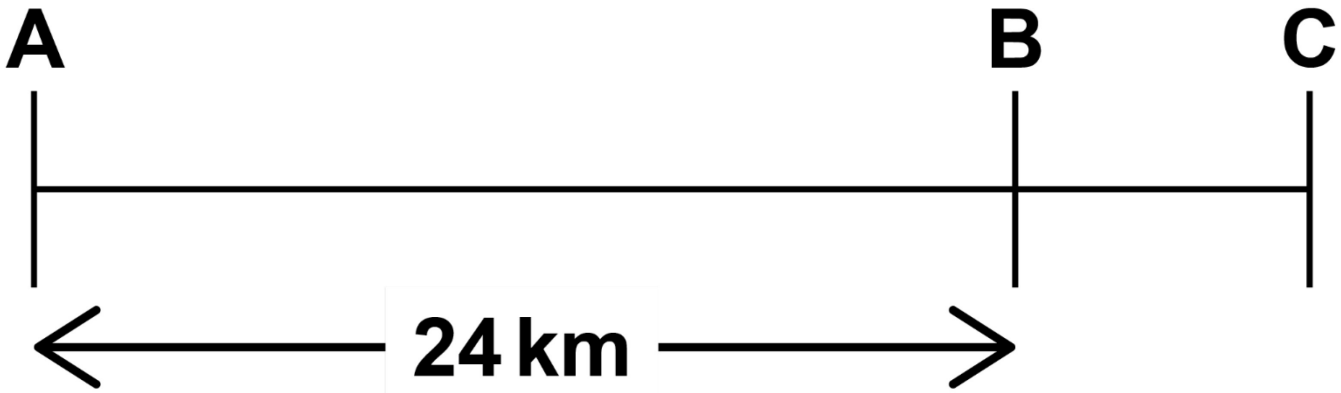
Length: 12 **cm**

Width: $1\frac{1}{2}$ **cm**

Calculate the volume of this cuboid.

_____ cm^3

23. Look at the diagram below. It shows a straight line labelled **ABC**.
It is not to scale.



The distance from **A** to **B** is **24 km**.

The distance from **A** to **B** is $\frac{3}{4}$ the distance from **A** to **C**.

What is the distance from **B** to **C**?

_____ km

End of test

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