2026 national curriculum tests

Key stage 2

Mathematics

Paper 3: reasoning

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						
DfE number						

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B 0 0 0 8 0 A 0 1 2 4

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Instructions

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

Questions and answers

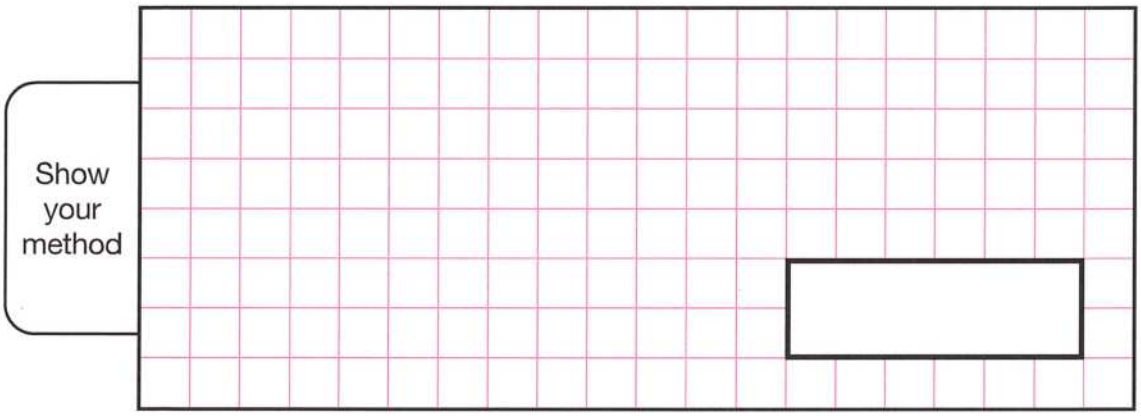
You have **40 minutes** to complete this test.

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 the space around the question.
Do not write over any barcodes.

Some questions have a method box like this:



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**.

Marks

The number under each line at the side of the page tells you the number of marks available for each question.

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1 Here are five numbers.

Tick **all** the numbers that are **greater than 1.05**

1.03 ☐

1.2 ☑ 1.20

0.95 ☐

1.51 ☑

0.15 ☐

1 mark

2 This table shows the times that some children wake up one morning.

Name	Time
Ken	7:08
Jacob	7:45
Stefan	7:37
Marie	7:23
Lara	6:30

How much later does Jacob wake up than Lara?

30 mins 45 mins

6:30 7:00 7:45

Total: 75 mins = 1hr 15mins

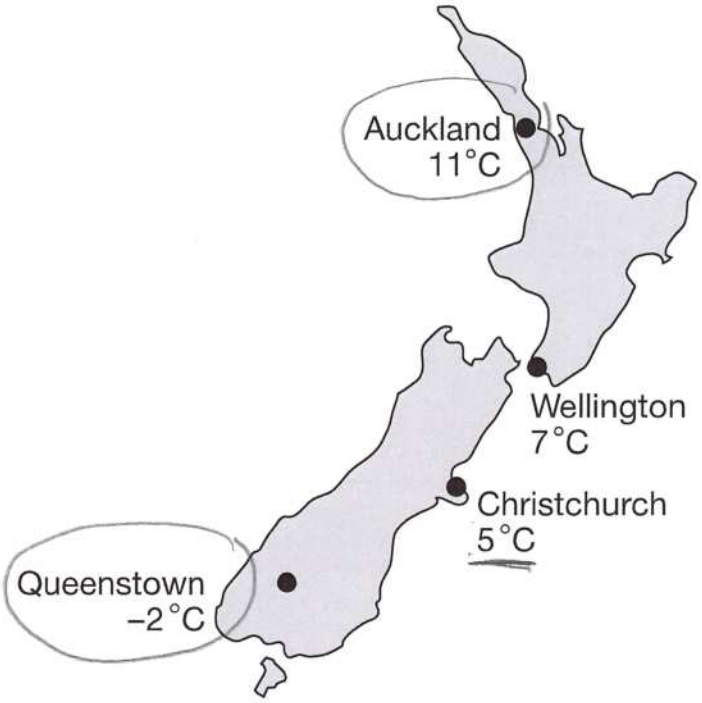
1hr 15mins

1 mark

B 0 0 0 8 0 A 0 4 2 4

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3 Here are some temperatures recorded in New Zealand in July.



What is the **difference** between the temperatures in Auckland and Queenstown?

11 − -2 = 13

13 °C

1 mark

The temperature in Christchurch **falls** by 6 degrees.

What is the new temperature?

5 − 6 = -1

−1 °C

1 mark

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4 Write the missing digits to make this subtraction correct.

$$\begin{array}{r} {}^{6}\cancel{7}\ \boxed{0}\ 8 \\ -\ 1\ 6\ \boxed{2} \\ \hline 5\ 4\ 6 \end{array}$$

1 mark

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B 0 0 0 8 0 A 0 6 2 4

5 Adam buys **6** apples and **7** peaches.



apples
28p each



peaches
32p each

How much does he pay?

Show your method

0·28 × 6 = 1·68

0·32 × 7 = 2·24

2·24 + 1·68 = 3·92

£ 3·92

2 marks

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6 Write these numbers in order, starting with the **least**.

$1\frac{7}{8} = \frac{15}{8}$ $1\frac{3}{8}$ $1\frac{1}{8} = \frac{9}{8}$ $1\frac{5}{8}$

$\frac{9}{8}$	$1\frac{3}{8}$	$1\frac{5}{8}$	$\frac{15}{8}$

least

1 mark

7 Dev chooses a one-digit number.

He multiplies his number by 6

The **tens** digit of his answer is 5

What was the one-digit number he chose?

$9 \times 6 = 54$

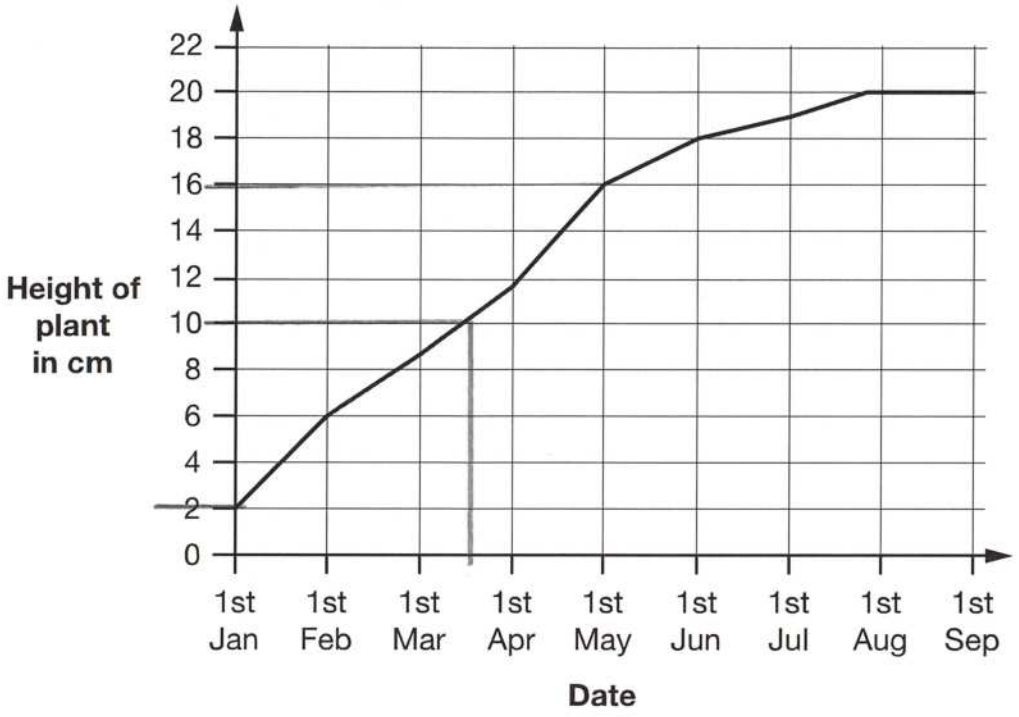
9

1 mark

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B 0 0 0 8 0 A 0 8 2 4

8 This graph shows the height of a growing plant.



How much did the plant grow between 1st January and 1st May?

16 - 2 = 14

14 cm

1 mark

During which month did the plant reach **half** of its final height?

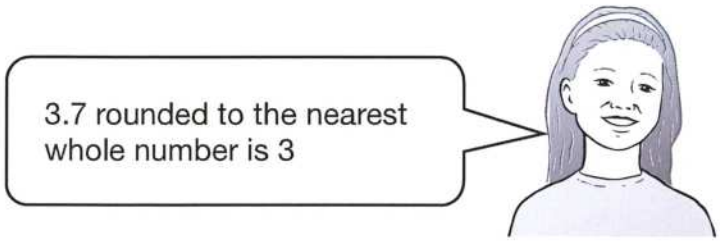
20 ÷ 2 = 10

March

1 mark

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9 Olivia says,



Explain why Olivia is **not** correct.

3.7 would round to 4 since 3.7 is greater than 3.5.

1 mark

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B 0 0 0 8 0 A 0 1 0 2 4

10 Circle the **two** numbers below that have the **total nearest to 40**

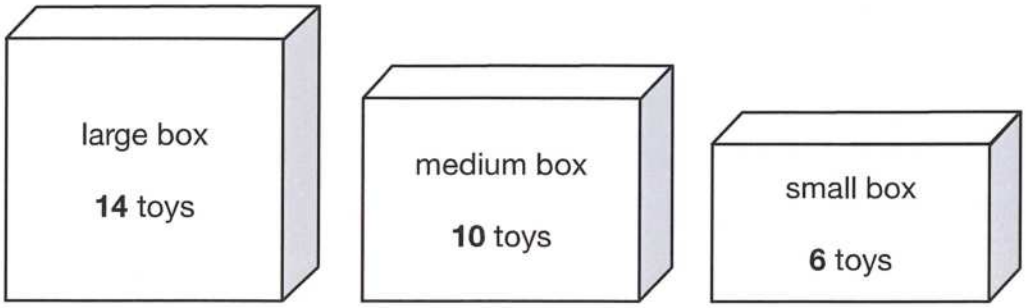
16 17 25 28

1 mark

25 + 16 = 41

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11 John packs boxes of toys to sell in his shop.



He packs **46** large boxes, **62** medium boxes and **70** small boxes.

How many toys does John pack **altogether**?

Show your method

46 × 14 = 184, 460, 644

62 × 10 = 620

7 × 6 = 42

70 × 6 = 420

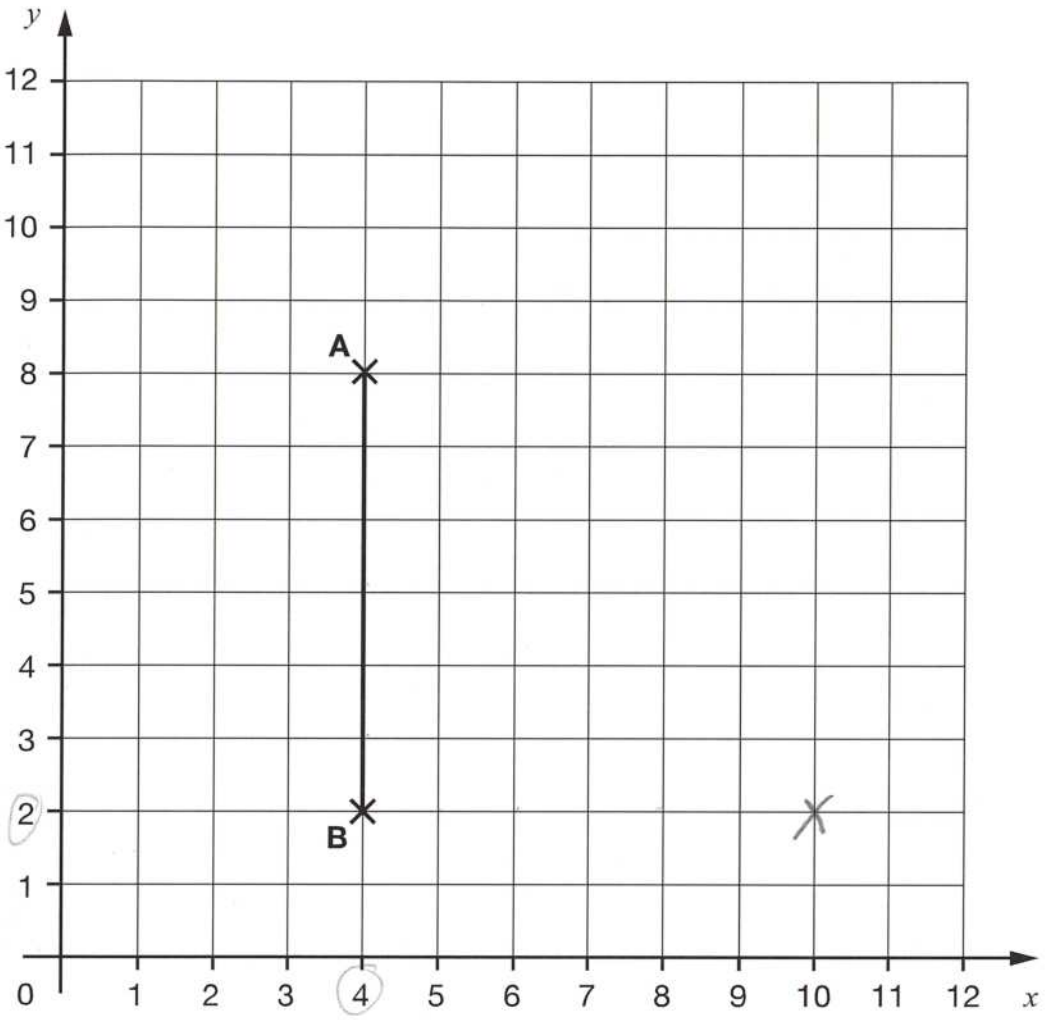
620 + 420 + 644 = 1684

2 marks

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B 0 0 0 8 0 A 0 1 2 2 4

12



Write the coordinates of point **B**.

(4 , 2)

1 mark

Triangle **ABC** is a **right-angled** triangle.

Point **C** is not shown.

Two sides of the triangle are equal in length.

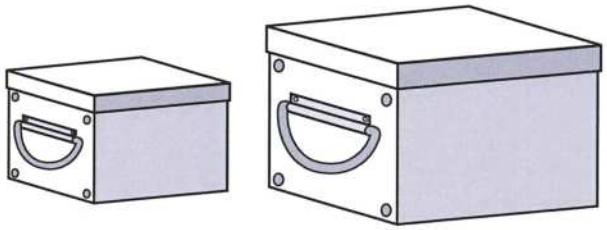
Draw **one** cross on the grid where point **C** could be.

1 mark

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13 Ally has two boxes.

Box A **Box B**



1 : 3

Box B is **three times heavier than** Box A.

The **total** mass of the boxes is **600** grams.

What is the mass of each box?

Box A = 150 **g**

1 mark

Box B = 450 **g**

1 mark

$$4 \overline{)600} = 150 \qquad 150 \times 3 = 450$$

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B 0 0 0 8 0 A 0 1 4 2 4

14 This number sentence can be completed in different ways.

Show one way to complete it.

Write a **different** whole number in each box.

$126 \div \boxed{2} = \boxed{9} \times 7$

1 mark

$$2\overline{)126} = 63$$

$9 \times 7 = 63$

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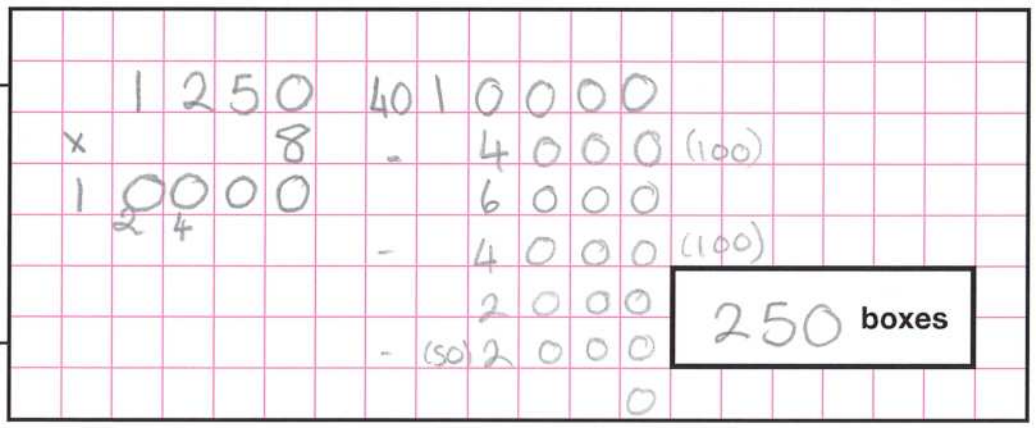
15 A machine in a bakery makes **1,250** loaves of bread in one hour.

The machine runs for **8** hours in one day.

The loaves of bread are packed into boxes of **40**

How many boxes are filled in one day?

Show your method

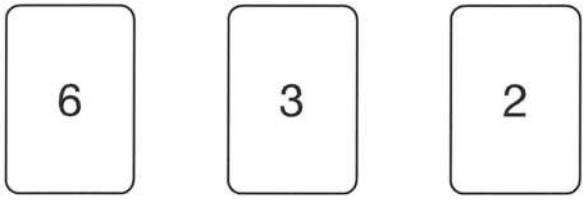


2 marks

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B 0 0 0 8 0 A 0 1 6 2 4

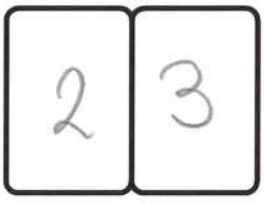
16 Here are some digit cards.



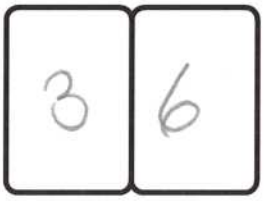
You can use each card **more than once**.

Use the cards to make:

a **prime** number

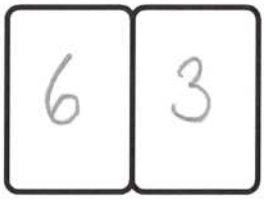


a **square** number



$6^2 = 6 \times 6 = 36$

a **multiple of 7**



$9 \times 7 = 63$

2 marks

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17 Tick the number sentences that are **correct**.

$\frac{1}{2} = 0.5$ ☑

$\frac{2}{5} = 0.2$ ☐ $\frac{2}{5} = \frac{4}{10} = 0.4$

$\frac{7}{10} = 0.07$ ☐ $\frac{7}{10} = 0.7$

$\frac{9}{20} = 0.45$ ☑ $\frac{9}{20} = \frac{45}{100} = 0.45$

$\frac{27}{100} = 0.27$ ☑ $\frac{27}{100} = 0.27$

2 marks

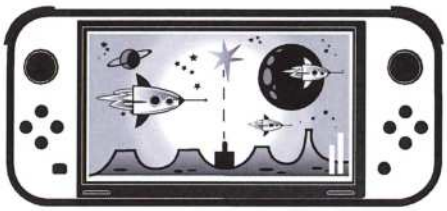
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B 0 0 0 8 0 A 0 1 8 2 4

18 Layla is saving to buy a game.

It costs **£60**

For every **£4** that Layla saves, her mum gives her **£1**



How much must Layla save to reach her target?

Show your method

12
5|60

12 x 4 = 48

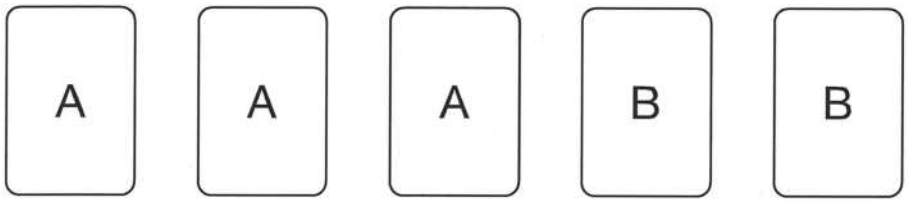
£ 48

2 marks

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19 Here are five cards.

A and B stand for two **different** whole numbers.



The sum of all of the cards is **35**

Give **one pair** of possible values for A and B.

A = 11 **B =** 1

11 x 3 = 33
2 x 1 = 2
Total 35

1 mark

Now write a **different pair** of values for A and B.

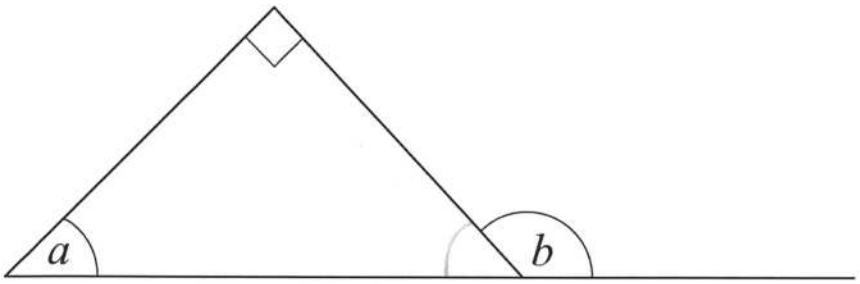
A = 1 **B =** 16

1 x 3 = 3
35 - 3 = 32
16
2 | 32

1 mark

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20 The triangle in this diagram is **isosceles**.



Not to scale

What are the sizes of angles a and b?

180 - 90 = 90

2 | 45
  | 90

180 - 45 = 135

a is 45 °

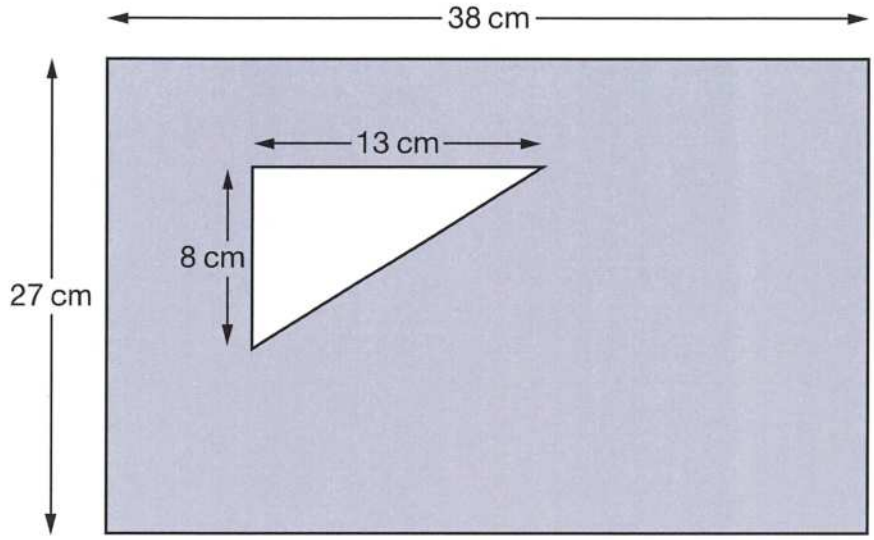
1 mark

b is 135 °

1 mark

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21 This diagram shows a triangle inside a rectangle.



Not actual size

What is the area of the **shaded** section?

Show your method

Area of full rectangle

38
× 27
266
760
1026

Area of triangle

8 × 13 ÷ 2

13
× 8
104

52
2|104

Area of shaded

0 9
1 8 2 6
− 5 2
9 7 4

974 cm²

3 marks

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B 0 0 0 8 0 A 0 2 2 2 4

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