

**2026 national curriculum tests**

# **Key stage 2**

**Mathematics**

## **Paper 3: 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 3. There is additional guidance on marking some questions in this paper in the key stage 2 Mathematics amendments to mark schemes – MLP document.

# 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.**

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**The test continues on the next page.**

**1. Look at the five numbers below.**

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

**1.03**

**1.2**

**0.95**

**1.51**

**0.15**

2. The table below 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?**

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- 3. Below are some temperatures recorded in New Zealand in July.**

**Auckland  $11^{\circ}\text{C}$**

**Wellington  $7^{\circ}\text{C}$**

**Christchurch  $5^{\circ}\text{C}$**

**Queenstown  $-2^{\circ}\text{C}$**

- (a) What is the difference between the temperatures in Auckland and Queenstown?**

\_\_\_\_\_  $^{\circ}\text{C}$



**(b) The temperature in Christchurch  
falls by 6 degrees.**

**What is the new temperature?**

\_\_\_\_\_°C

4. Write the missing digits to make this subtraction correct.

$$\begin{array}{r} 7 \quad \square \quad 8 \\ - 1 \quad 6 \quad \square \\ \hline 5 \quad 4 \quad 6 \end{array}$$

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

**Apples cost 28p each.**

**Peaches cost 32p each.**

**How much does he pay?**

**Show your method.**

**£ \_\_\_\_\_**

6. Look at the four numbers below.

$$\frac{15}{8}$$

$$1\frac{3}{8}$$

$$\frac{9}{8}$$

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

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

**least**

**7. Dev chooses a one–digit number.**

**He multiplies his number by 6**

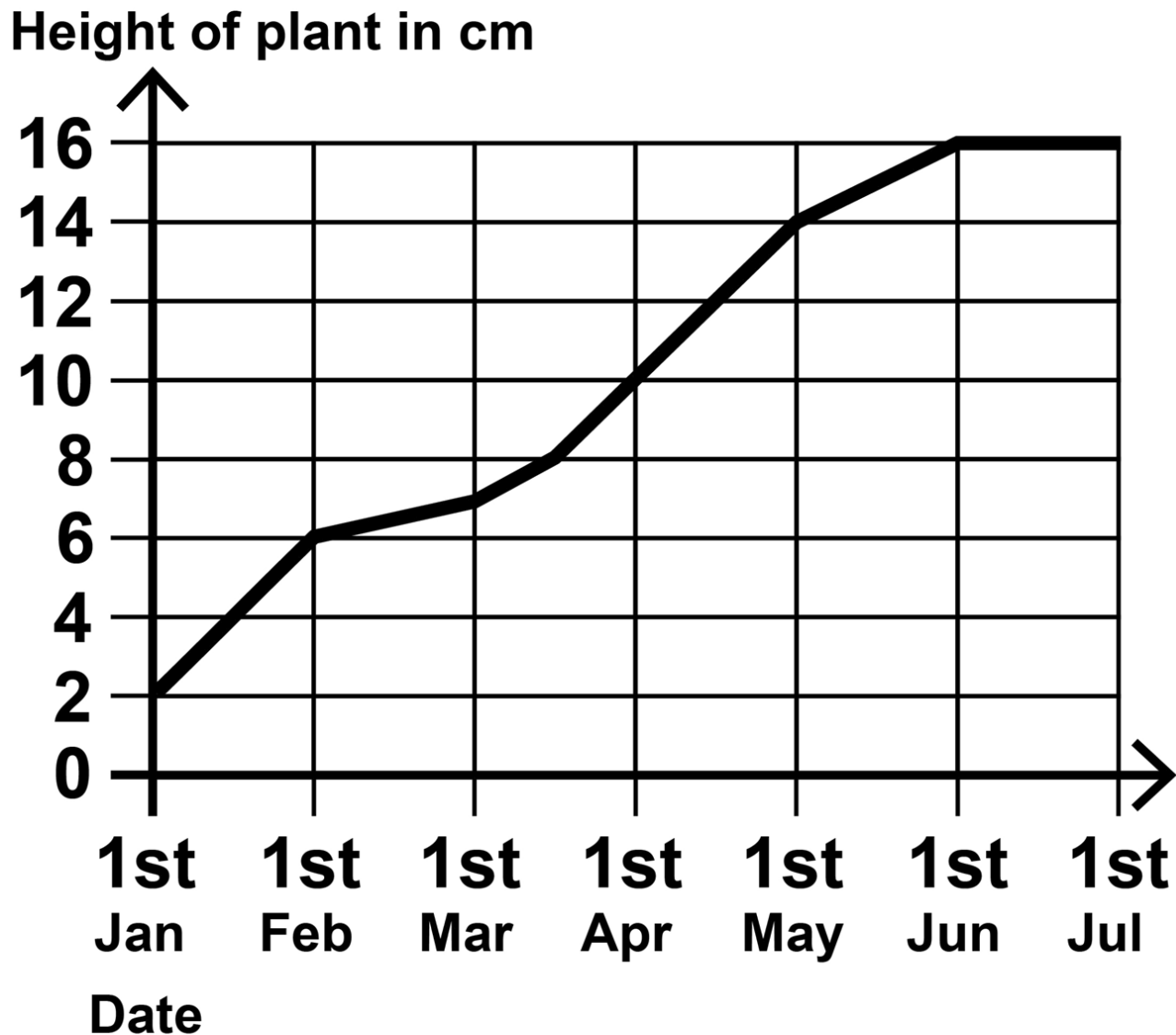
**The *tens* digit of his answer is 5**

**What was the one–digit number  
he chose?**

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8. Look at the graph below.

It shows the height of a growing plant.



- (a) How much did the plant grow between **1st** January and **1st** May?

\_\_\_\_\_ cm

- (b) During which month did the plant reach **half** of its final height?

\_\_\_\_\_

9. Olivia says  $3.7$  rounded to the nearest whole number is  $3$

**Explain why Olivia is *not* correct.**



**10. Tick or mark the **two** numbers below that have the **total** nearest to **40****

**16**

**17**

**25**

**28**

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

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

**A large box has 14 toys.**

**A medium box has 10 toys.**

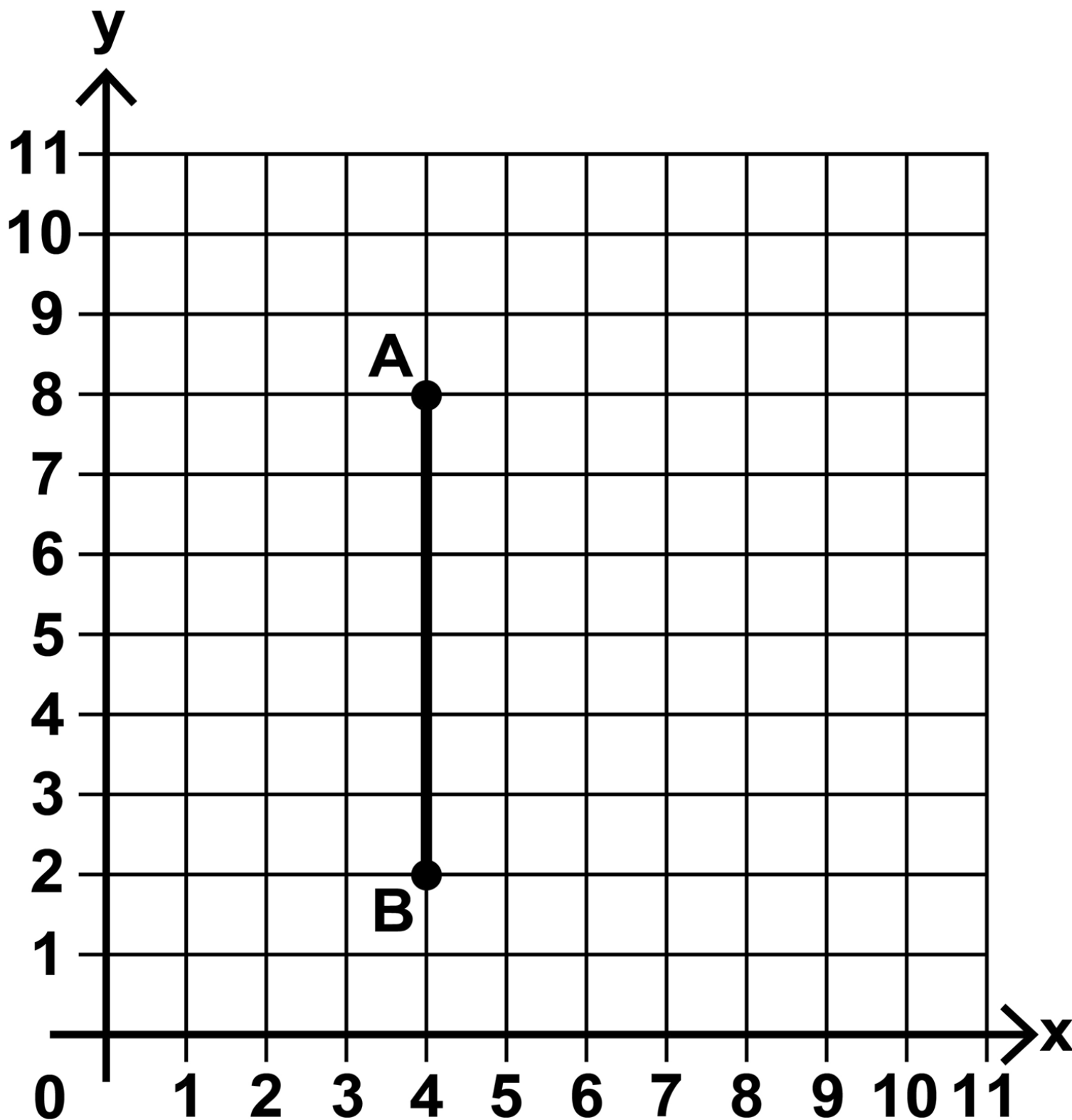
**A small box has 6 toys.**

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

**Show your method.**

---

12. Look at the graph below.



(a) Write the coordinates of point **B**.

( \_\_\_\_\_ , \_\_\_\_\_ )

(b) Triangle **ABC** is a  
**right-angled** triangle.

Point **C** is not shown.

Two sides of the triangle are  
equal in length.

Mark on the grid **one** point  
where point **C** could be.

**13. Ally has two boxes.**

**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 = \_\_\_\_\_ g**

**Box B = \_\_\_\_\_ g**

- 14. The number sentence below can be completed in different ways.**

**Show one way to complete it.**

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

$$126 \div \boxed{\phantom{000}} = \boxed{\phantom{000}} \times 7$$

**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**

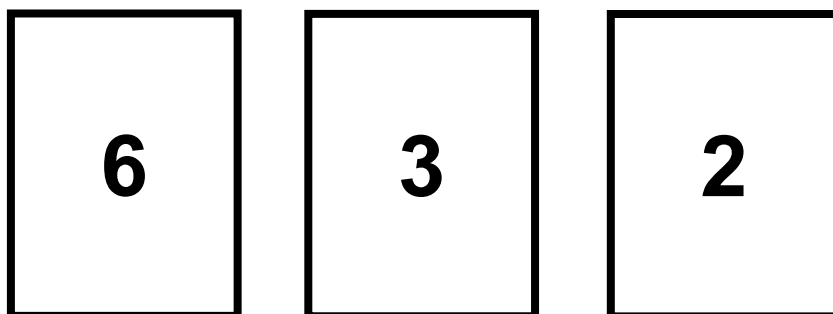


**How many boxes are filled in  
one day?**

**Show your method.**

**\_\_\_\_\_ boxes**

**16. Look at the three digit cards below.**



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

Use the cards to make:

a **prime** number

--	--

a **square** number

--	--

a **multiple of 7**

--	--

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**17. Look at the list of five number sentences below.**

**Tick or mark the number sentences that are **correct**.**

$$\frac{1}{2} = 0.5$$

$$\frac{2}{5} = 0.2$$

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

$$\frac{9}{20} = 0.45$$

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

**18. Layla is saving to buy a game.**

**It costs £60**

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

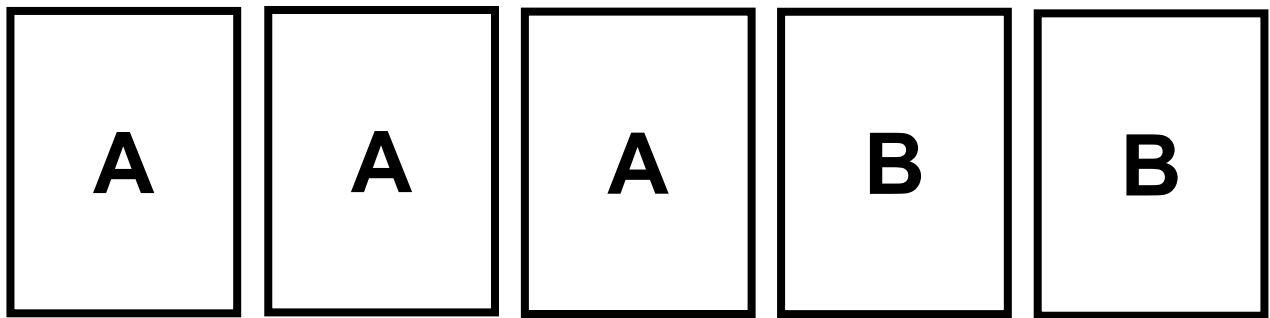
**How much must Layla save to reach her target?**

**Show your method.**

**£** \_\_\_\_\_

**19. Look at the five cards below.**

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



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



- (a) Give **one pair** of possible values for **A** and **B**.

$$A = \boxed{\phantom{000}} \quad B = \boxed{\phantom{000}}$$

- (b) Now write a **different pair** of values for **A** and **B**.

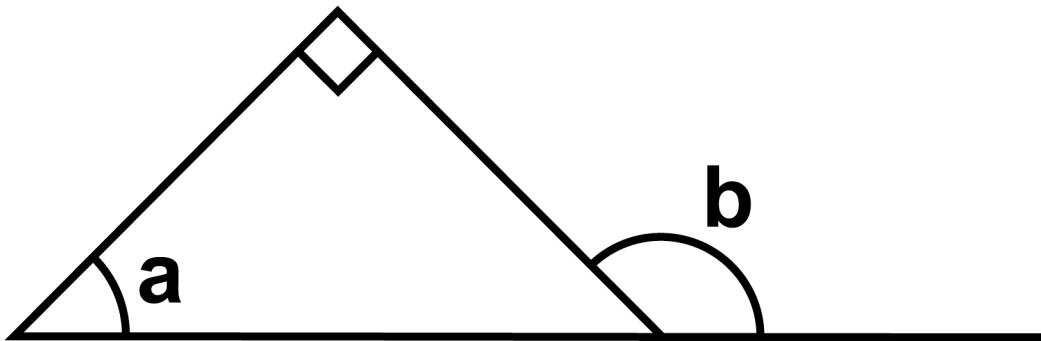
$$A = \boxed{\phantom{000}} \quad B = \boxed{\phantom{000}}$$

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20. The triangle in the diagram below is **isosceles**.

Not to scale



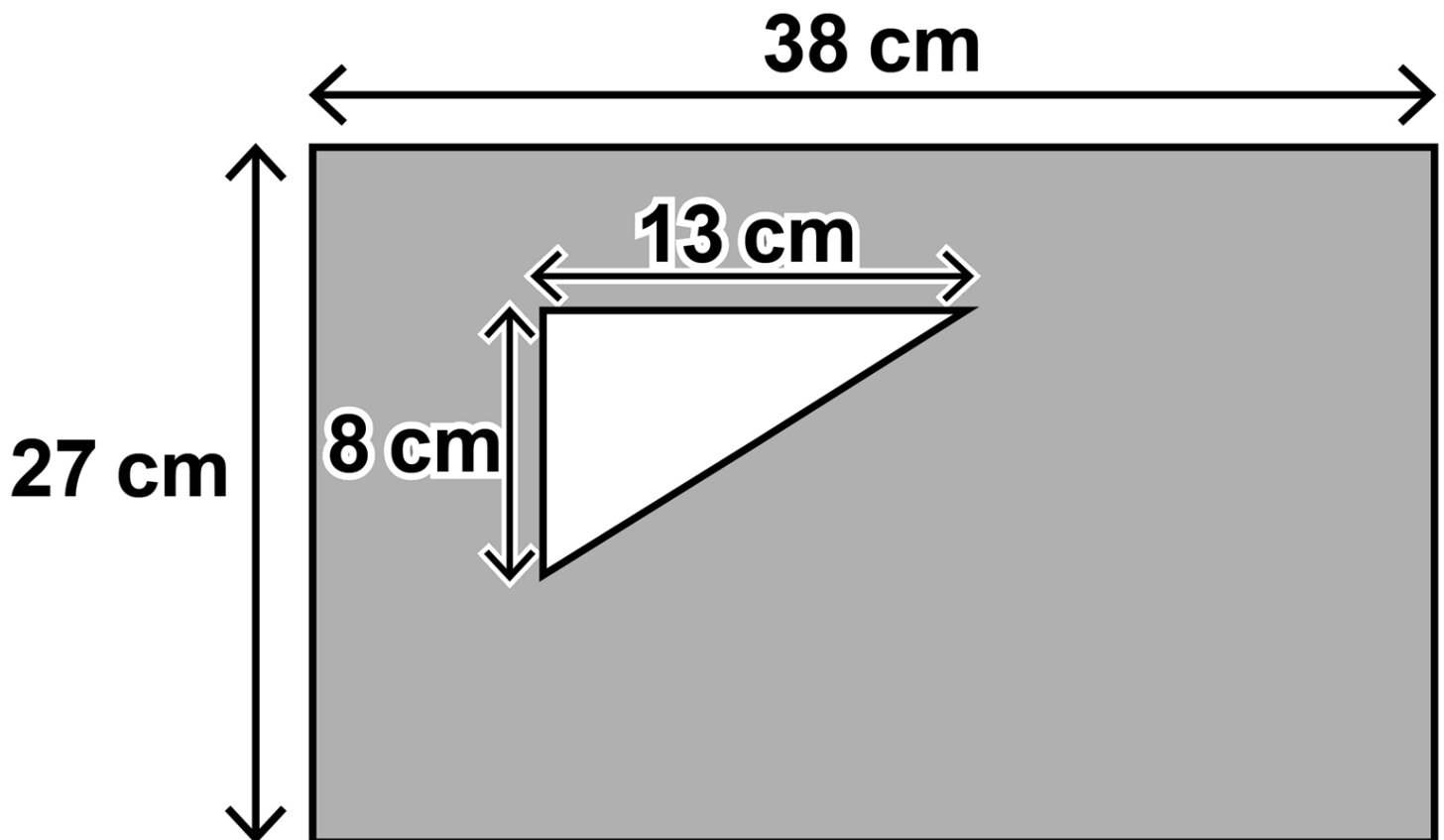
What are the sizes of angles **a** and **b**?

**a** is \_\_\_\_\_ °

**b** is \_\_\_\_\_ °

21. The diagram below shows a triangle inside a rectangle.

Not actual size



The triangle has a height of **8 cm**  
and a width of **13 cm**.

The rectangle has a height of **27 cm**  
and a width of **38 cm**.

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

**Show your method.**

\_\_\_\_\_ **cm<sup>2</sup>**

# End of test

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Standards  
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