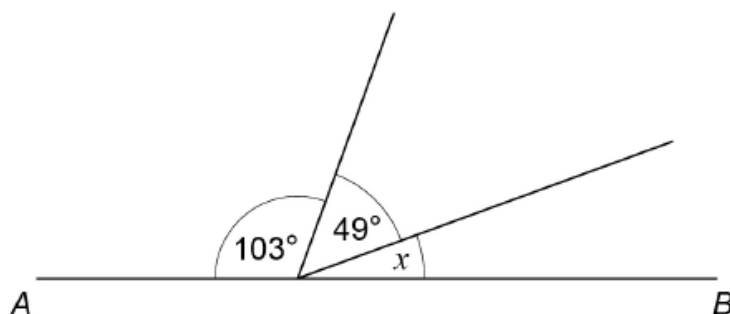


Geometry and measures – GCSE Mathematics Page 3

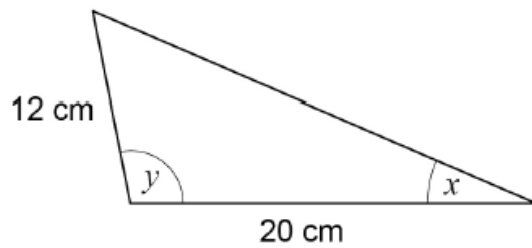
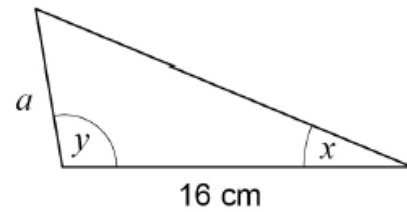
1. No.11

 AB is a straight line.Not drawn
accuratelyWork out the size of angle x .**[2 marks]**

Answer _____ degrees

2. No.9

These two triangles are similar.

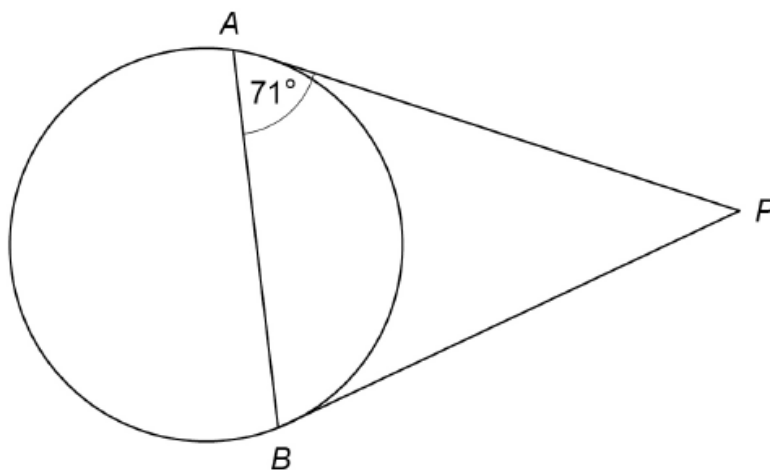
Not drawn
accuratelyWork out the value of a .

[2 marks]

Answer _____ cm

3. No.21

- (a) A and B are points on a circle.
 PA and PB are tangents.



Not drawn
accurately

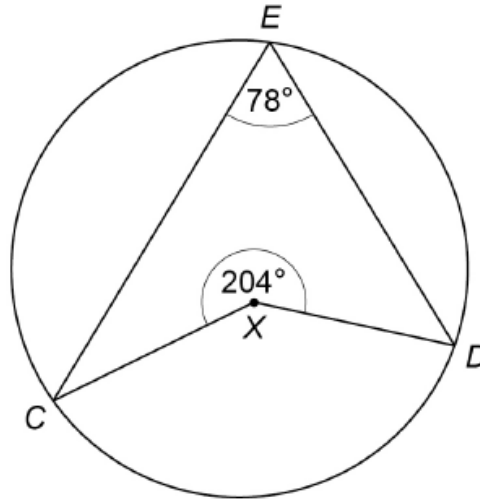
Work out the size of angle APB .

[2 marks]

Answer _____ degrees

- (b) C , D and E are points on a different circle.

Not drawn
accurately



Is X the centre of the circle?

Tick a box.

☐

Yes

☐

No

Show working to support your answer.

[2 marks]

4. No.29

Line A has equation $y = 4x - 1$

Line B is

perpendicular to line A

and

passes through the point (8, 5)

Work out the coordinates of the point where line B intersects the x -axis.

[4 marks]

Answer (_____ , _____)

5. No.1

Circle the value of the digit 2 in the answer to $5200 \div 10$

[1 mark]

2

20

200

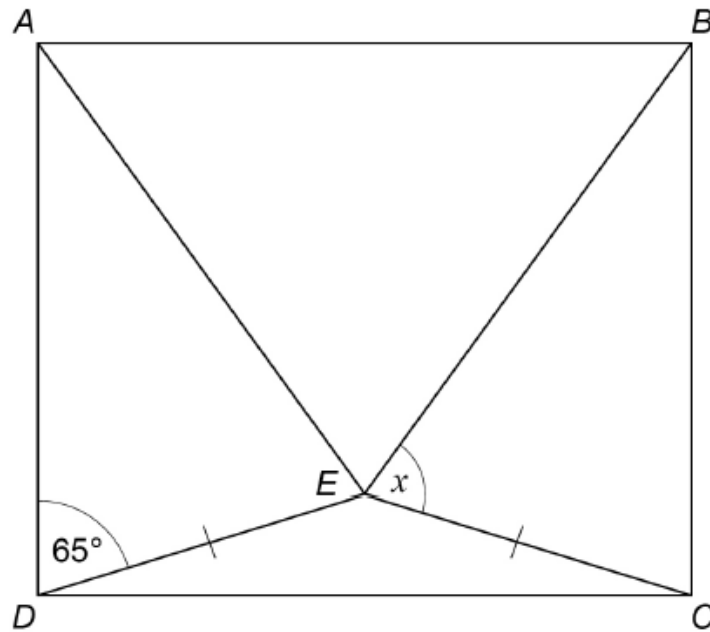
2000

6. No.10

In rectangle $ABCD$

triangle ABE is equilateral

triangle CDE is isosceles, with $CE = DE$



Not drawn
accurately

Work out the size of angle x .

[4 marks]

Answer _____ degrees

8. No.24

Two solids, J and K, have the same density.

Complete the table.

Include units in your answers.

[3 marks]

	J	K
Mass	48 g	78 g
Volume	8 cm ³	
Density		

9. No.26

Mia wants to borrow £6000 and repay it, with interest, after two years.

She sees two offers for loans.

Offer 1

Compound interest

3% per year

Offer 2

Compound interest

First year 1%

Second year 5%

Mia says,

“I will pay back the same amount because the average of 1% and 5% is 3%”

Is she correct?

You **must** show your working.

[3 marks]

10. No.28

A straight line

has gradient 4

and

passes through the point (5, 23)

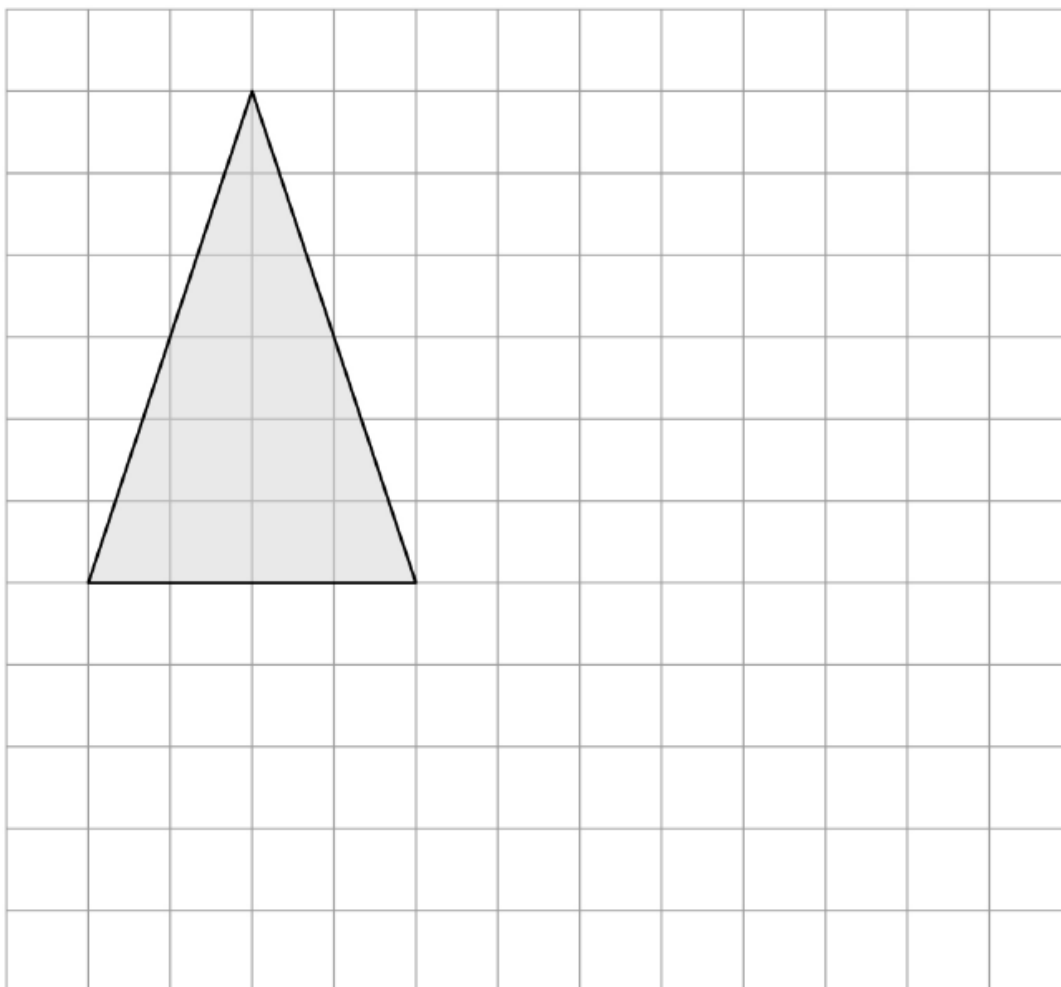
Work out the equation of the line.

Give your answer in the form $y = mx + c$ **[3 marks]**

Answer _____

11. No.5

On the grid, draw an enlargement of the triangle with scale factor $\frac{1}{2}$

[2 marks]

12. No.12

A straight line

has gradient 4

and

passes through the point (5, 23)

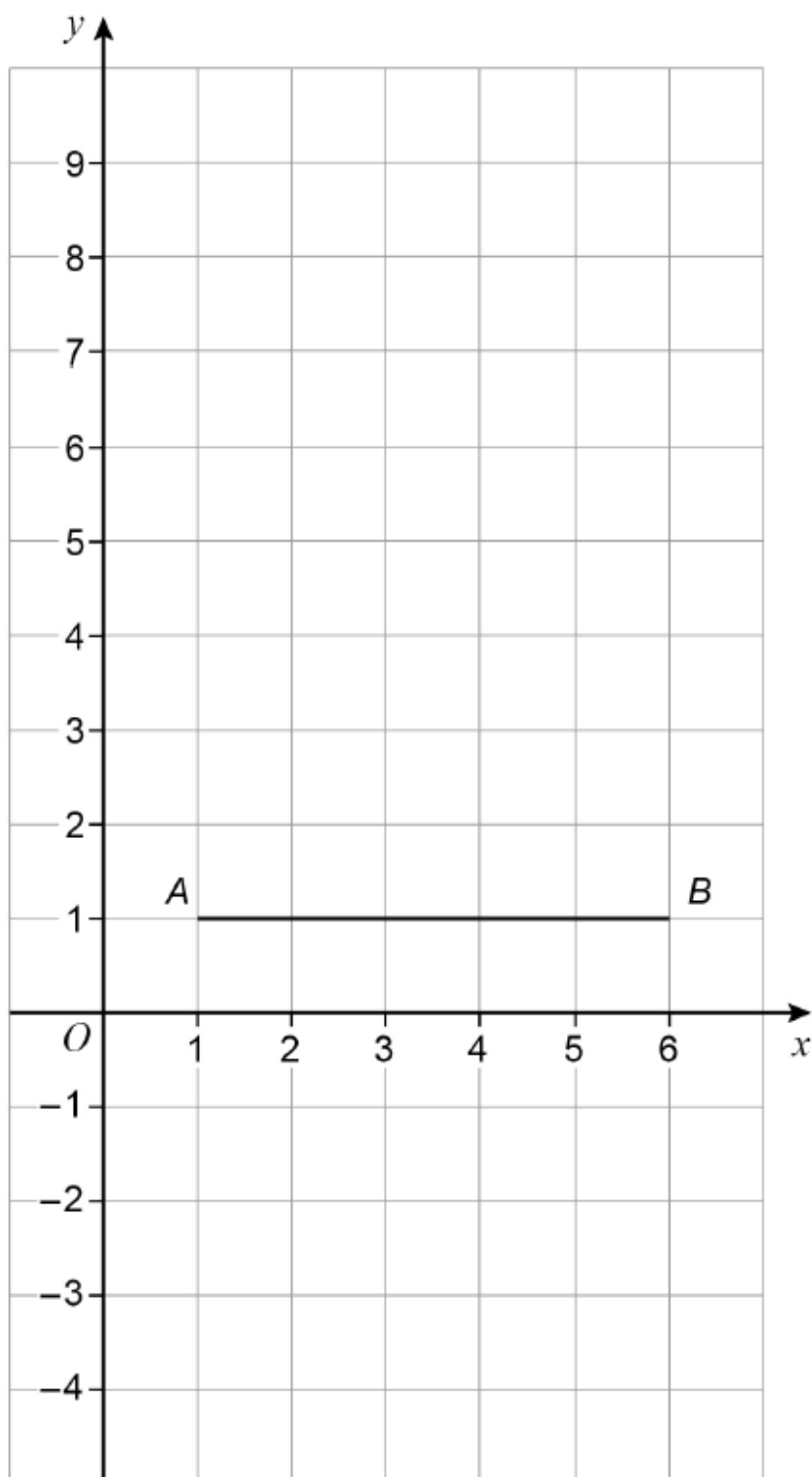
Work out the equation of the line.

Give your answer in the form $y = mx + c$ **[3 marks]**

Answer _____

13. No.10

A line joins $A (1, 1)$ and $B (6, 1)$ on a centimetre grid.



P is a point on the line AB such that

$$AP : PB = 2 : 3$$

C is a point such that

angle APC is 90°

and

$$PC = 4 \text{ cm}$$

Write down the coordinates of the **two** possible points for C .

[3 marks]

Answer (_____ , _____) and (_____ , _____)