



A-TEAM ACADEMY

PREDICTED PAPERS 2026

AQA

GCSE MATHS (F)

PAPER 1

Turning Preparation into Performance

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1. Which of these shapes have the most sides? (1 mark)

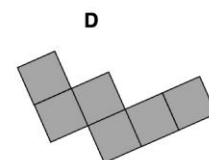
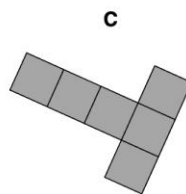
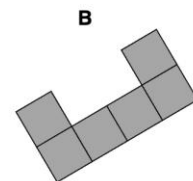
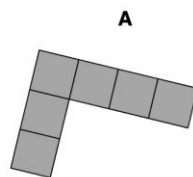
Hexagon Octagon Rhombus Trapezium

_____ (1 mark)

2. State the number that is 5 less than 2

_____ (1 mark)

3. Which of these is the net of a cube? Circle the correct letter.



(1 mark)

4. Solve $4x = 8$

Circle your answer

$x = 0.5$

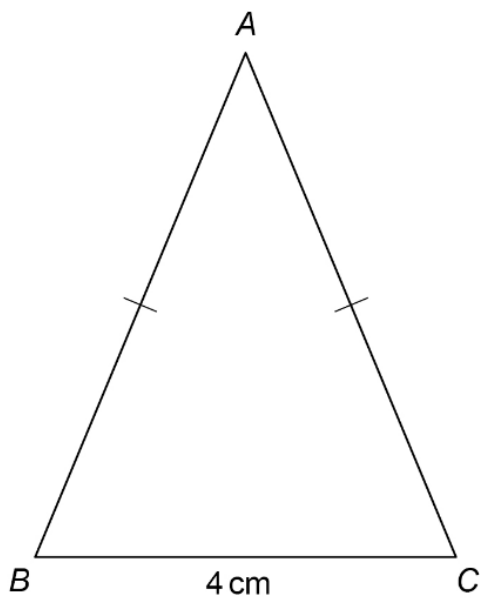
$x = 2$

$x = 4$

$x = 32$

(3 marks)

5. In this isosceles triangle,
 $AB=AC$



Not drawn
accurately

The perimeter of the triangle 22cm

Work out the length of AB

(3 marks)

6. Work out 35% of 1200

_____ (3 marks)

7. Work out: $\frac{5}{6} + \frac{3}{7}$

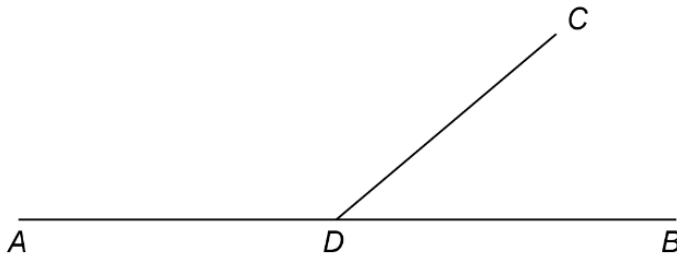
Give your answer as a mixed number. (3 marks)

_____ (3 marks)

8. A helicopter blade does 3206 full turns in 7 minutes. Work out the number of full turns per minute. (2 marks)

_____ (2 marks)

9. ADB and CD are straight lines



Angle $ADC = 5 \times$ angle CDB

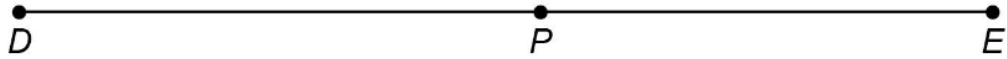
Work out the size of angle ADC .

Answer _____ degrees (3 marks)

10.

A straight path between D and E passes through P . $DE = 200$ metres

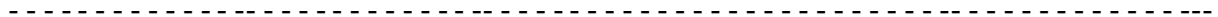
P is 60 metres closer to E than to D. (3 marks)



Work out the ratio $DP : PE$

Give your answer in its simplest form.

(3 marks)



11. Put the whole numbers 1 to 12 into the boxes to make the calculations correct. Only use each number once.

$$\square + \square + \square = \boxed{7}$$

$$\square + \square + \square = \boxed{32}$$

$$\square + \square + \square = \boxed{15}$$

$$\square + \square + \square = \boxed{24}$$

(3 marks)

12.

Apples	25p each
Oranges	60p each

Salma has £10 to buy apples and oranges.

She buys 9 apples and as many oranges as possible.

How many oranges does she buy?

_____ (4 marks)

13. Work out $\sqrt{121} - (13 - 5 \times 2)^2$

_____ (3 marks)

14. Work out $2000 \times 70\,000$. Give your answer in standard form.

_____ (2 marks)

15. This formula converts temperature in degrees Fahrenheit (F) to kelvin (K)

$$K = \frac{5}{9}(F - 32) + 273$$

A pottery oven is heated to 2192 degrees Fahrenheit.

Work out this temperature in kelvin.

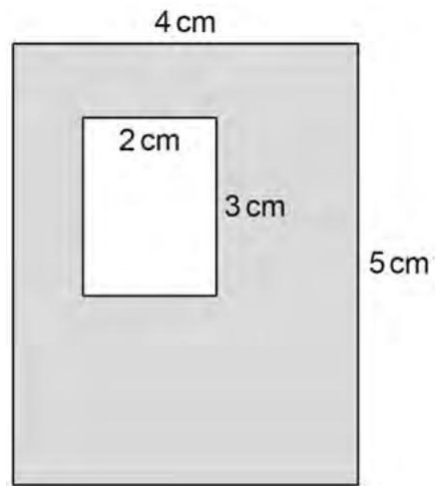
_____ Kelvin (3 marks)

16. The height of Zak is 1.86 metres,
The height of Fred is 1.6 metres.

Write the height of Zak as a fraction of the height of Fred.
Give your answer in it's simplest form.

_____ (3 marks)

17. A large rectangle has a hole cut out.

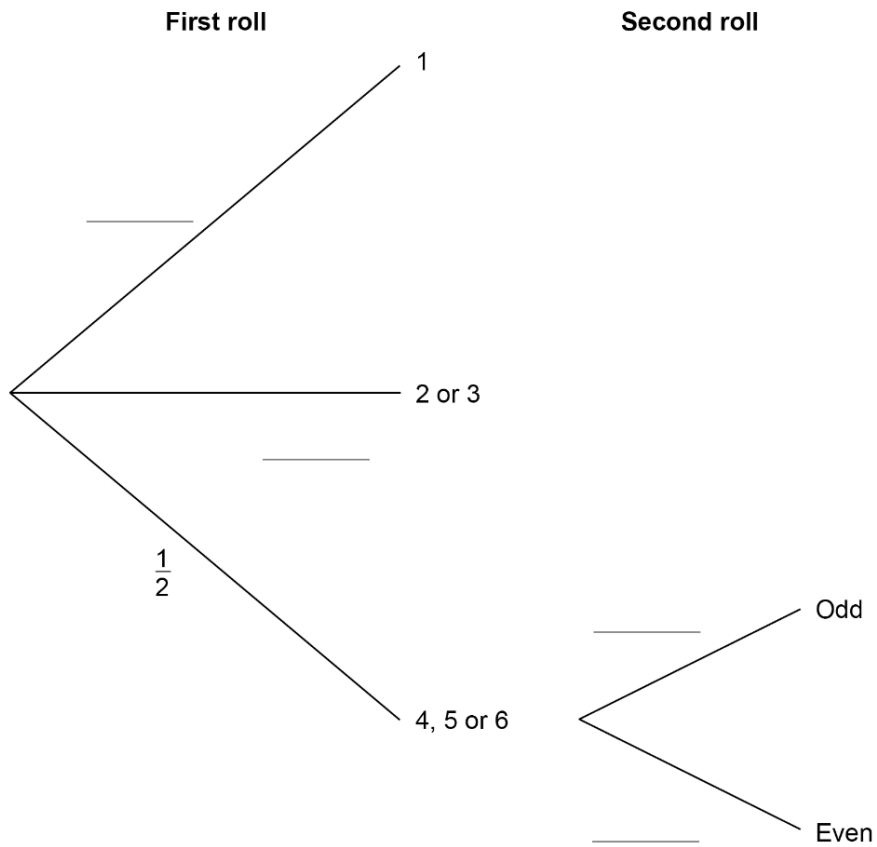


Work out the percentage of the large rectangle that is shaded.

_____ % (3 marks)

18. Anna plays a game with an ordinary, fair dice.
 If she rolls 1 she wins.
 If she rolls 2 or 3 she loses.
 If she rolls 4, 5 or 6 she rolls again.
 When she has to roll again,
 If she rolls an odd number, she wins
 If she rolls an even number, she loses.

a) Complete the tree diagram with the four missing probabilities.



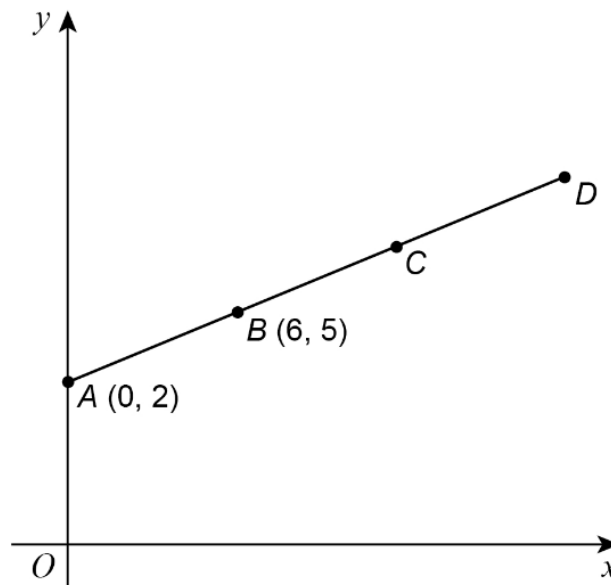
(2 marks)

b) Is Anna likely to win or to lose?

You must work out the probability that she wins.

_____ (4 marks)

19. A (0, 2) and B (6, 5) are points on the straight line ABCD.



Not drawn accurately

$AB = BC = CD$

Work out the coordinates of D.

_____ (3 marks)

20. Write 36 as a product of prime factors. Give your answer in index form.

_____ (3 marks)

21. Divide 405 in the ratio 4:11

_____ (3 marks)

22. Factorise $x^2 + 7x + 10$

_____ (2 marks)

23. 70% of a number is 350
Work out 120% of the number.

_____ (3 marks)

24. Solve $5x - 2 > 3x + 11$

_____ (2 marks)

25.

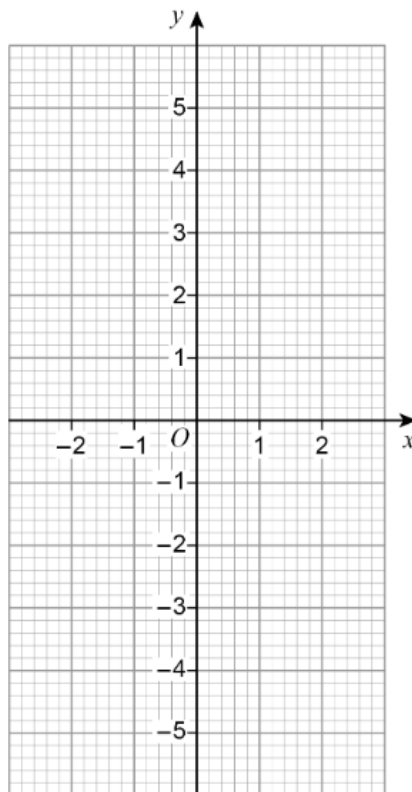
a. Complete the table of values $y = x^2$ for

x	-2	-1	0	1	2
y					

(1 mark)

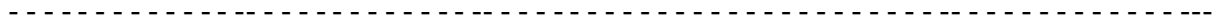
b. Draw the graph $y = x^2$ of
For values of x from -2 to 2.

(2 marks)

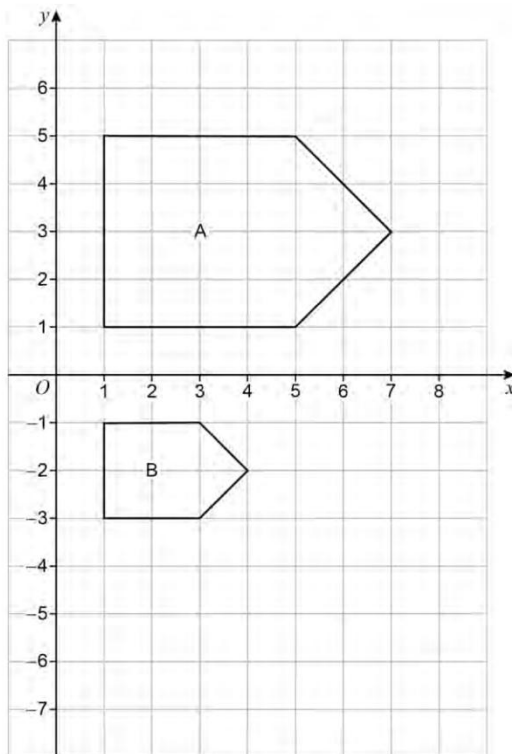


c. Use your graph to estimate the value of $\sqrt{2.6}$

_____ (2 marks)



26. Describe the single transformation that maps shape A to B.

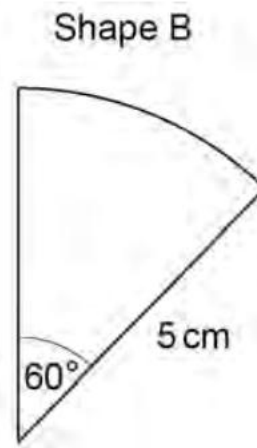
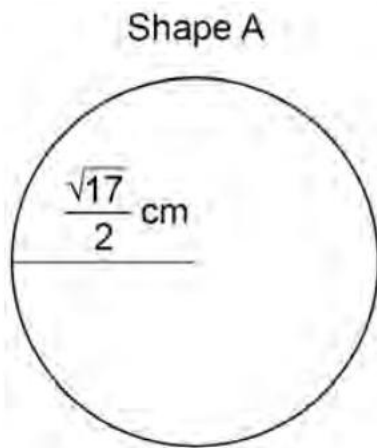


(3 marks)

28. Shape A is circle with radius $\frac{\sqrt{17}}{2}$ cm

Shape B is a sector of a circle with radius 5cm.

Not drawn accurately



Which shape has the greater area, A or B?

You must show your working.

_____ (5 marks)

29. Solve $11x - 3 = 6x + 1$

X= _____ (3 marks)

END OF PAPER

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