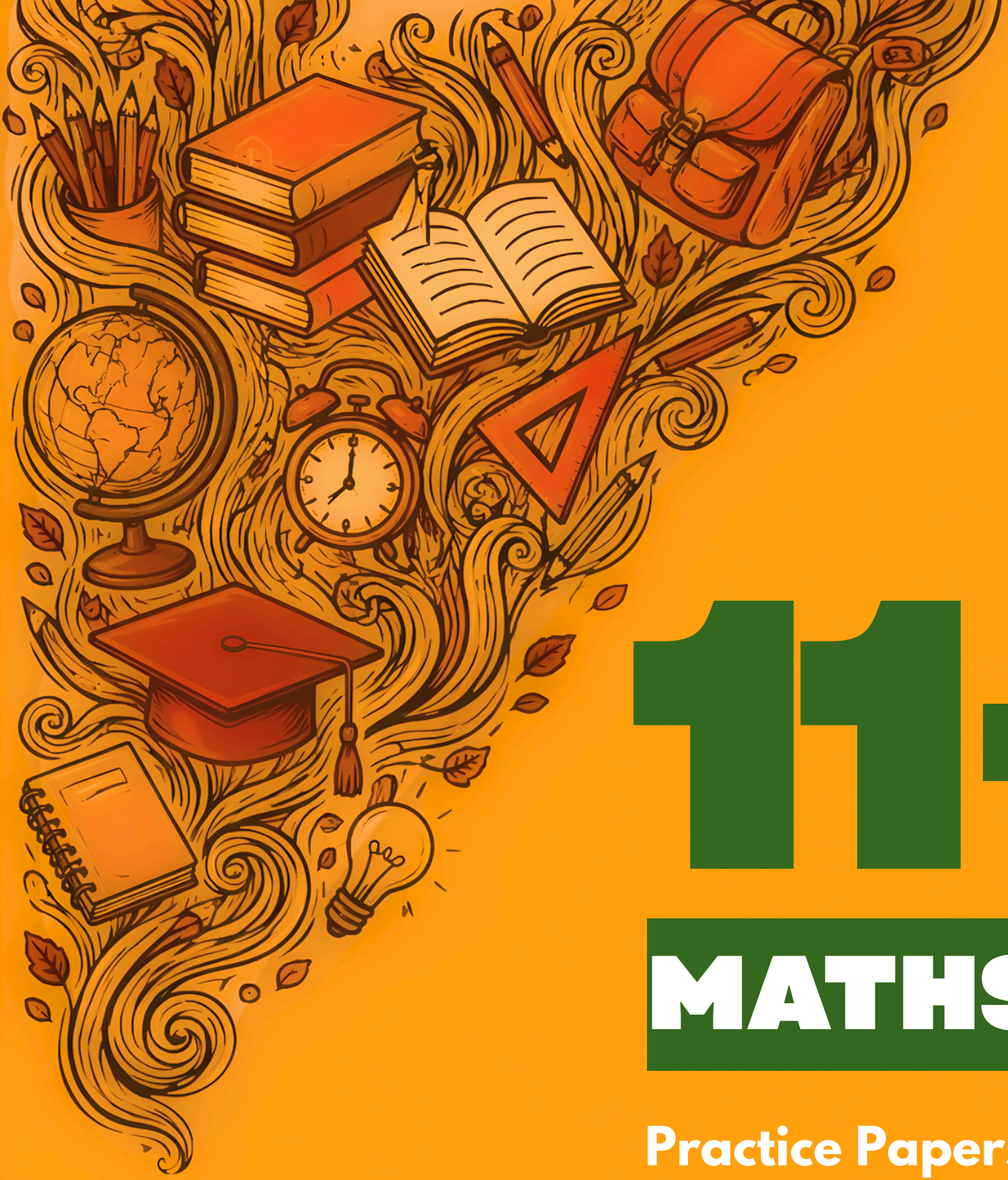

11+

MATHS

Practice Papers

FOR A RANGE OF 11+ ENTRANCE EXAMS

DESIGNED & CREATED BY

Syed Aashir Raza

11+ WITH AASHIR

CLARITY. DIRECTION. CONFIDENCE.

This book is designed to support preparation for 11+ entrance examinations. It is not affiliated with any specific examination board.

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Author's NOTE

Dear Student,

If you're holding this book, it means you're already taking a brave step towards something important, and that alone is something to be proud of.

Preparing for the 11+ can sometimes feel challenging, and there may be moments when things don't come easily. That's completely normal. Every strong learner you admire once felt the same way. What matters is not getting everything right straight away, but continuing to try, to think, and to grow.

This book has been created to guide you through your journey, step by step. Take your time with each question. Think carefully, learn from your mistakes, and most importantly, believe in your ability to improve.

You don't need to be perfect. You just need to keep going.

Wishing you every success,

Aashir Raza
Founder, 11+ with Aashir
11pluswithaashir.co.uk

Paper 1

1. When a certain whole number is divided by 5 the remainder is 3, and when it is divided by 7 the remainder is 4. Find the smallest such number that is greater than 20. [2 marks]

Answer .....

2. Without using a calculator, work out 96 × 125. You must show a method. [2 marks]

Answer .....

3. A jug is 2/3 full of juice. After 300 ml is poured out, the jug is exactly 1/2 full. Work out the total capacity of the jug, in litres. [3 marks]

Answer ..... ***litres***

4. Three-quarters of the pupils in a class are right-handed. Of the right-handed pupils, one-third wear glasses. Exactly 6 right-handed pupils wear glasses. How many pupils are in the class? [3 marks]

Answer ..... ***pupils***

5. A shop buys a bicycle for £180 and marks up the price by 35%. It later sells the bicycle in a sale with 20% off the marked-up price. Find the final selling price and the profit the shop makes. [3 marks]

Answer

price: £ .....

profit: £ .....

6. After a pay rise of 15%, Sam earns £23 000 a year. What was Sam's salary before the rise? [2 marks]

Answer £ .....

7. A pile of 100 identical coins is 18.5 cm tall. Work out the thickness of a single coin, giving your answer in millimetres. [3 marks]

Answer ..... mm

8. Sweets are shared between Amir, Beth and Carl in the ratio 2 : 3 : 5. Carl receives 24 more sweets than Amir. How many sweets are there altogether? [3 marks]

Answer ..... sweets

9. In a jar, the ratio of red beads to blue beads is 3 : 2. When 10 more red beads are added, the ratio becomes 2 : 1. How many blue beads are in the jar? [3 marks]

Answer ..... blue beads

10. I think of a number, multiply it by 4 and add 7. I get exactly the same answer as when I multiply the number by 6 and subtract 5. What is my number? [2 marks]

Answer .....

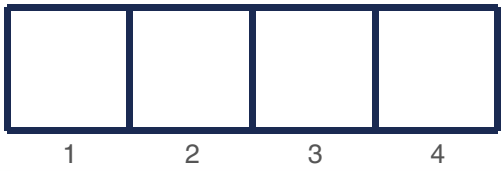
11. The sum of four consecutive whole numbers is 90. What is the largest of the four numbers? [2 marks]

Answer .....

12. In a sequence, each term is found by **doubling the previous term and then subtracting 1**. The third term is 13. Work out the first term. [3 marks]

Answer .....

13. Rows of squares are made from matchsticks. 1 square uses 4 matchsticks, 2 squares use 7, 3 squares use 10, and so on. [3 marks]



(a) How many matchsticks are needed to make a row of 20 squares?

Answer .....

(b) A row uses exactly 100 matchsticks. How many squares does it contain?

Answer .....

14. In the diagram, triangle ABC is isosceles with AB = AC, and the apex angle at A is 40°. The base BC is extended to the right. Work out the exterior angle marked **x**. [3 marks]

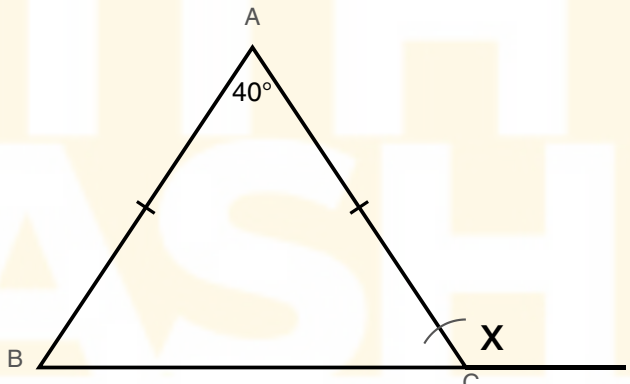


Diagram not to scale

Answer x = ... degrees

15. Four of the five interior angles of a pentagon are 100°, 120°, 90° and 95°. Work out the size of the fifth angle. [2 marks]

Answer ..... degrees

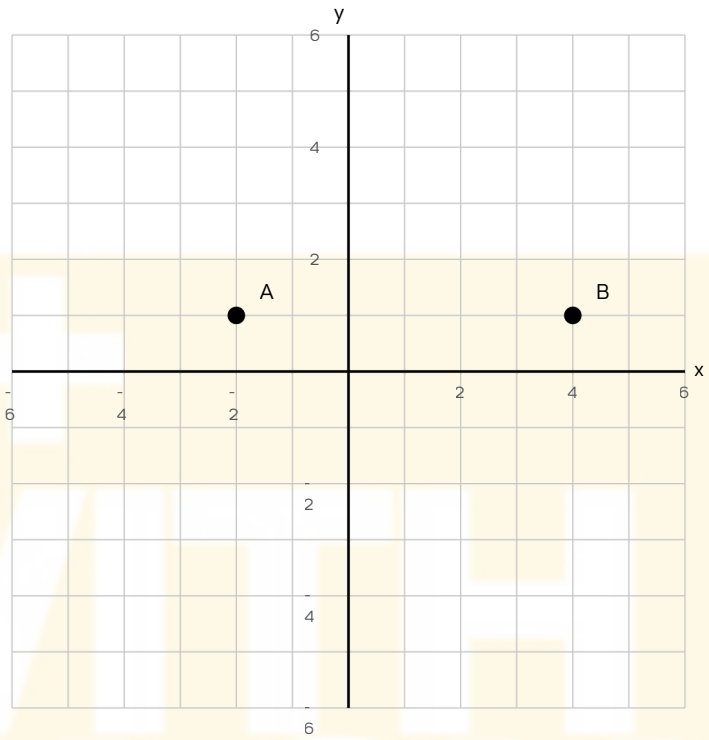
16. A regular polygon has exactly 9 lines of symmetry. How many sides does it have, and what is the order of its rotational symmetry? [2 marks]

Answer

sides .....

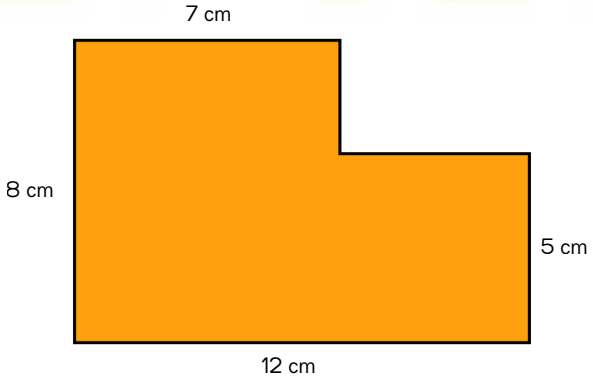
order .....

17. A(-2, 1) and B(4, 1) are two **opposite** corners (ends of a diagonal) of a square. Work out the coordinates of the other two corners. [3 marks]



Answer (.....) and (.....)

18. The diagram shows an L-shaped tile made by cutting a small rectangle from the corner of a larger rectangle. All corners are right angles. Work out the perimeter and the area of the tile. [3 marks]



Answer

Perimeter ..... cm

Area ..... cm^2

19. The mean of five numbers is 14. When one of the numbers is removed, the mean of the remaining four numbers is 12. What number was removed? [2 marks]

Answer .....

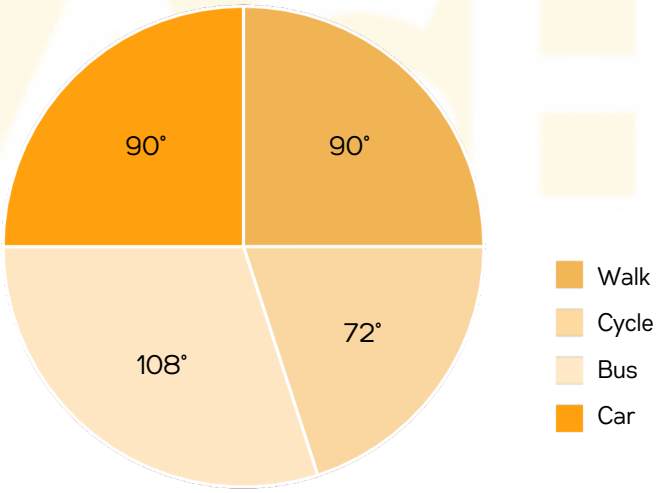
20. After 10 innings a batsman has a mean score of 32 runs. How many runs must he score in his 11th innings so that his mean score rises to 35? [3 marks]

Answer ..... runs

21. A bag contains only red and blue counters. The probability of taking a red counter at random is 3/7. There are 12 blue counters in the bag. How many red counters are there? [3 marks]

Answer ..... red counters

22. Pupils were asked how they travel to school. In the pie chart, the 'Walk' sector is 90° and represents 15 pupils. The 'Cycle' sector is 72°. How many pupils were asked altogether, and how many cycle to school? [3 marks]



Answer

total .....

cycle .....

23. Write down all the whole numbers less than 50 that have **exactly three** factors. [2 marks]

Answer .....

24. Two lighthouses flash together at exactly 21:00:00. After that, one flashes every 12 seconds and the other every 18 seconds. At what time do they next flash at the same moment? [2 marks]

Answer .....

25. A tank in the shape of a cuboid measures 40 cm × 25 cm × 30 cm. It contains water to a depth of 18 cm. How many litres of water are in the tank? (1000 cm^3 = 1 litre.) [3 marks]

Answer ..... ***litres***

26. A train leaves London at 09:55 and arrives in York at 12:10. The return train is 20 minutes quicker than the outward journey and leaves York at 14:30. At what time does the return train reach London? [3 marks]

Answer .....

27. A cyclist rides 24 km at a steady 16 km/h, rests for 15 minutes, then rides a further 12 km at a steady 18 km/h. Work out the total time for the whole journey. [3 marks]

Answer .....

28. Pens cost 30p each and pencils cost 20p each. Maya buys 12 items in total and pays exactly £3.10. How many pens did she buy? [3 marks]

Answer ..... ***pens***

29. A rectangular field is three times as long as it is wide. The fence running all the way around the field is 96 m long. Turf costs £4 for each square metre. Work out the total cost of turfing the whole field. [4 marks]

Answer £ .....

End of Paper

Paper 2

1 **What is the value of the digit 7 in 3,704,512?**

A 700 000 **B** 7000 **C** 70 000 **D** 7 000 000 **E** 700

2 **Work out 96 ÷ 8 + 5 × 3**

A 21 **B** 27 **C** 24 **D** 36 **E** 51

3 **Which of these numbers is the largest?**

A 0.6 **B** 0.59 **C** 0.605 **D** 0.56 **E** 0.5099

4 **Work out $^{3}/_{8}$ of 640**

A 80 **B** 200 **C** 320 **D** 240 **E** 120

5 **Work out 0.25 × 48**

A 24 **B** 96 **C** 1.2 **D** 120 **E** 12

6 **Work out 15% of 340**

A 51 **B** 34 **C** 68 **D** 5.1 **E** 510

7 A television normally costs £100. In a sale it is reduced by 10%. In a later clearance sale, that already-reduced price is cut by a further 10%.

What is the final price?

A £80 **B** £81 **C** £82 **D** £90 **E** £79

8 **£240 is shared in the ratio 3 : 5. How much is the larger share?**

A £90 **B** £120 **C** £150 **D** £96 **E** £144

9 **What is the highest common factor (HCF) of 36 and 48?**

A 6 **B** 4 **C** 24 **D** 12 **E** 144

10 **What is the lowest common multiple (LCM) of 8 and 12?**

A 48 **B** 4 **C** 96 **D** 16 **E** 24

11 **Which of these numbers is a prime number?**

A 53 **B** 51 **C** 57 **D** 63 **E** 49

12 Look at this sequence: 2, 6, 12, 20, 30, …

What is the next term?

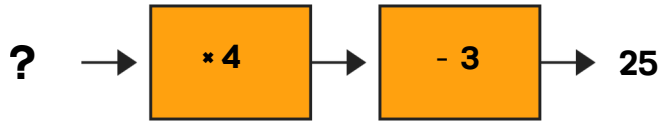
A 40 **B** 42 **C** 36 **D** 44 **E** 38

13 The nth term of a sequence is $3n + 2$.

What is the 20th term?

A 60 **B** 65 **C** 62 **D** 59 **E** 302

14 This number machine multiplies by 4 and then subtracts 3.



Which number was put in?

A 5.5 **B** 8 **C** 88 **D** 7 **E** 6

15 **Solve $3x + 7 = 2x + 15$**

A 22 **B** 4.4 **C** 2 **D** 11 **E** 8

16 Three consecutive whole numbers add up to 72.

What is the largest of the three numbers?

A 25 **B** 24 **C** 23 **D** 26 **E** 22

17 **What is the midpoint of (2, 3) and (8, 11)?**

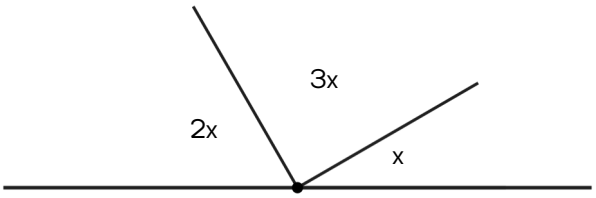
A (6, 8) **B** (5, 7) **C** (5, 8) **D** (10, 14) **E** (3, 4)

18 P(2, 4) and Q(8, 4) are opposite corners (the ends of a diagonal) of a square.

What are the other two corners?

A (2, 7) and (8, 1) **B** (3, 4) and (7, 4) **C** (5, 7) and (5, 1) **D** (5, 10) and (5, -2)

19 The diagram shows three angles on a straight line.



What is the value of x?

A 36 **B** 60 **C** 20 **D** 30 **E** 18

20 An isosceles triangle has a base angle of 65°.

What is the size of the apex angle?

A 65° **B** 50° **C** 55° **D** 40° **E** 130°

21 **What is the size of each interior angle of a regular hexagon?**

A 120° **B** 720° **C** 108° **D** 135° **E** 60°

22 Four angles meet at a point. Three of them are 90°, 120° and 50°.

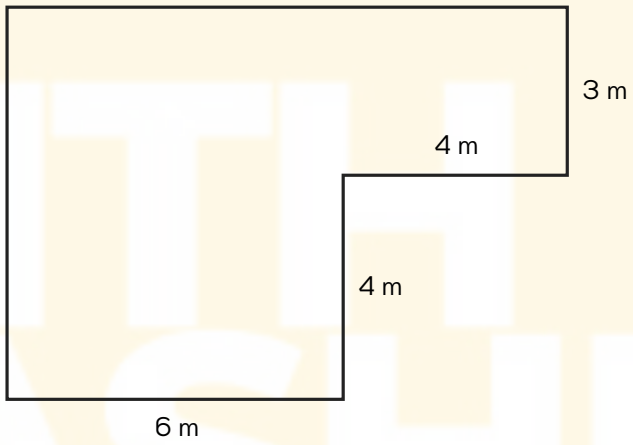
What is the size of the fourth angle?

A 110° **B** 100° **C** 90° **D** 120° **E** 80°

23 **A triangle has a base of 12 cm and a height of 5 cm. What is its area?**

A 60 cm² **B** 17 cm² **C** 30 cm² **D** 34 cm² **E** 25 cm²

24 The diagram shows the plan of a room. All corners are right angles.



How far is it all the way round the edge of the room?

A 30 m **B** 28 m **C** 40 m **D** 34 m **E** 44 m

25 A rectangular lawn measures 12 m by 8 m. A square flower bed of side 3 m is dug out of it.

What area of lawn is left?

A 96 m² **B** 9 m² **C** 105 m² **D** 78 m² **E** 87 m²

26 **A cuboid measures 5 cm by 4 cm by 3 cm. What is its volume?**

A 60 cm³ **B** 12 cm³ **C** 47 cm³ **D** 27 cm³ **E** 120 cm³

27 **A cube has edges of length 4 cm. What is its total surface area?**

A 64 cm² **B** 96 cm² **C** 16 cm² **D** 24 cm² **E** 48 cm²

28 **How many millilitres are there in 2.5 litres?**

A 250 ml **B** 25 000 ml **C** 2500 ml **D** 25 ml **E** 2.5 ml

29 **Work out 3.2 kg + 450 g. Give your answer in kilograms.**

A 3.245 kg **B** 7.7 kg **C** 3.6 kg **D** 3.65 kg **E** 3.7 kg

30 A film starts at 19:45 and lasts 2 hours 35 minutes.

At what time does it end?

A 22:10 **B** 21:20 **C** 22:30 **D** 17:10 **E** 22:20

31 **A car travels 150 km in 2½ hours. What is its average speed?**

A 60 km/h **B** 75 km/h **C** 375 km/h **D** 50 km/h **E** 65 km/h

32 **A cyclist rides at 45 km/h for 40 minutes. How far does she travel?**

A 45 km **B** 30 km **C** 18 km **D** 27 km **E** 1800 km

33 Amir buys 3 notebooks costing £4.75 each and pays with a £20 note.

How much change should he get?

A £15.25 **B** £6.25 **C** £5.75 **D** £5.25 **E** £4.75

34 The mean of five numbers is 12. Four of the numbers are 10, 14, 9 and 15.

What is the fifth number?

A 11 **B** 13 **C** 10 **D** 12 **E** 48

35 The mean of six numbers is 20. A seventh number, 27, is then added.

What is the mean of all seven numbers?

A 20 **B** 23.5 **C** 22 **D** 147 **E** 21

36 A bag holds 5 red, 3 blue and 2 green counters. One counter is taken at random.

What is the probability that it is NOT red?

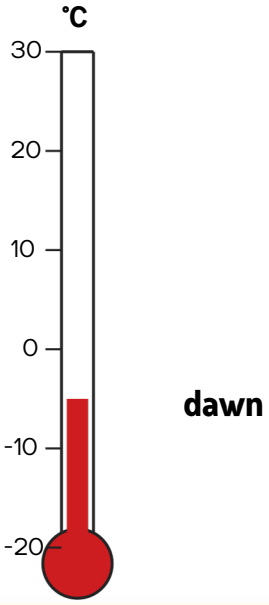
A $^1/_2$ **B** $^1/_5$ **C** $^3/_{10}$ **D** $^2/_5$ **E** $^1/_4$

37 A spinner lands on red with probability 0.3 and on blue with probability 0.45. It can only land on red, blue or green.

What is the probability that it lands on green?

A 0.35 **B** 0.25 **C** 0.75 **D** 0.2 **E** 0.3

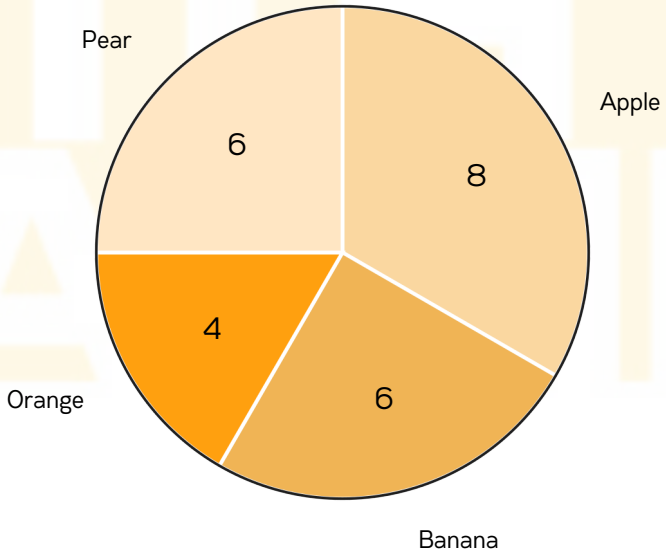
38 The thermometer shows the temperature at dawn.



By noon the temperature has risen by 18°C. What is the temperature at noon?

A 23°C **B** -23°C **C** 13°C **D** -13°C **E** 18°C

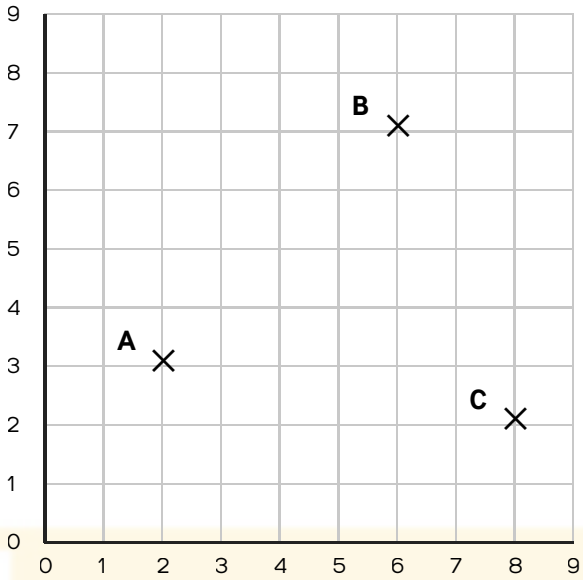
39 The pie chart shows the favourite fruit of 24 pupils.



What fraction of the pupils chose banana?

A $^1/_3$ **B** $^1/_6$ **C** $^1/_8$ **D** $^1/_4$ **E** $^1/_2$

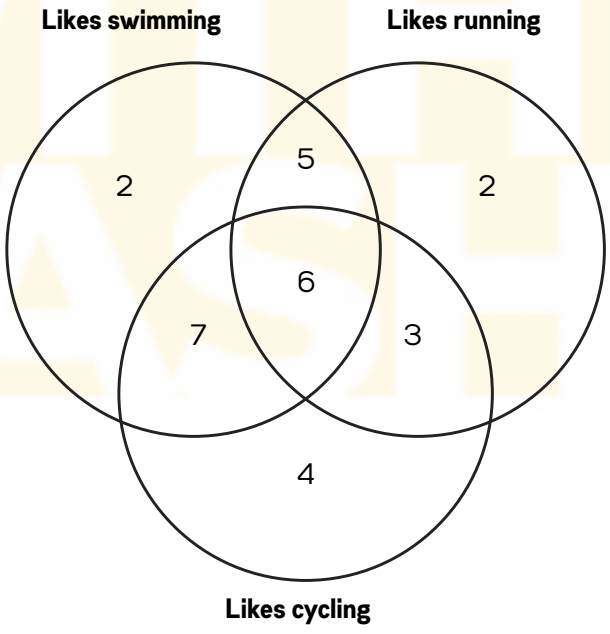
40 The grid shows three points, A, B and C.



What are the coordinates of the point marked B?

A (7, 6) **B** (6, 6) **C** (7, 7) **D** (2, 3) **E** (6, 7)

41 29 children said which of swimming, running and cycling they like.



How many children like exactly two of the three activities?

A 15 **B** 6 **C** 21 **D** 9 **E** 12

42 At midnight the temperature was -6°C. By 9 am it had risen by 9°C.

What was the temperature at 9 am?

A -3°C **B** 3°C **C** 15°C **D** -15°C **E** 9°C

43 **What is the difference between -7 and 5?**

A 2 **B** -12 **C** 12 **D** ⁻2 **E** 35

44 **Which of these is the best estimate of 612 × 39?**

A 18 000 **B** 2400 **C** 240 000 **D** 24 000 **E** 20 000

45 **How many edges does a triangular prism have?**

A 6 **B** 5 **C** 12 **D** 8 **E** 9

46 **Which of these solids has exactly 5 faces and 6 vertices?**

A a triangular prism **B** a square-based pyramid **C** a cube **D** a cuboid **E** a tetrahedron

47 Sam is facing North. He turns clockwise through 270°.

Which direction is he now facing?

A East **B** West **C** South **D** North **E** South-west

48 A number is a multiple of both 3 and 4 and lies between 40 and 60.

What is the number?

A 44 **B** 54 **C** 48 **D** 36 **E** 60

49 A shop buys pens for 40p each and sells them for 70p each. In one week it makes £96 profit on the pens.

How many pens did it sell that week?

A 320 **B** 240 **C** 137 **D** 480 **E** 384

50 One tap fills a tank at 12 litres per minute; another fills it at 8 litres per minute. Working together they fill the tank in 15 minutes.

How many litres does the tank hold?

A 180 **B** 300 **C** 120 **D** 240 **E** 20

51 £70 is shared between Amy, Ben and Cara. Amy gets twice as much as Ben, and Ben gets twice as much as Cara.

How much does Amy get?

A £10 **B** £20 **C** £40 **D** £35 **E** £30

52 A car uses 1 litre of fuel for every 12 km it travels. Fuel costs £1.50 per litre.

How much does the fuel for a 180 km journey cost?

A £15 **B** £270 **C** £2.50 **D** £22.50 **E** £120

53 A rectangle is three times as long as it is wide. Its perimeter is 64 cm.

What is its area?

A 256 cm² **B** 96 cm² **C** 128 cm² **D** 384 cm² **E** 192 cm²

54 At a party there are three times as many children as adults. Each child eats 2 sandwiches and each adult eats 3. In total 90 sandwiches are eaten.

How many children are at the party?

A 30 **B** 10 **C** 40 **D** 20 **E** 45

End of Paper

Paper 3

1. I am a two-digit number. My digits add up to 12. When my digits are reversed, the new number is 18 more than my original number. What number am I? [2 marks]

Answer .....

2. Without using a calculator, work out 48 × 250. You must show a method. [2 marks]

Answer .....

3. A tank is 3/5 full of water. After a further 240 litres is added, the tank is 4/5 full. Work out the total capacity of the tank. [3 marks]

Answer ..... litres

4. In a club, 2/5 of the members are children and the rest are adults. Of the adults, three-quarters are women. There are 18 women in the club. How many members does the club have altogether? [3 marks]

Answer ..... members

5. A coat costs £120. In November its price is increased by 25%. In the January sale, that new price is then reduced by 25%. Work out the final price of the coat, and state whether it is more or less than £120. [3 marks]

Answer £ .....

6. A shop buys a sofa for £400 and sells it for £520. What is the percentage profit, as a percentage of the cost price? [2 marks]

Answer ..... %

7. A ribbon 2.5 m long is cut into as many pieces as possible, each 0.35 m long. How many whole pieces can be cut, and how much ribbon (in cm) is left over? [3 marks]

Answer

pieces .....

leftover ..... cm

8. In a car park the ratio of cars to vans is 7 : 2. There are 45 more cars than vans. How many vehicles are in the car park altogether? [3 marks]

Answer ..... vehicles

9. In a school, the ratio of Year 5 to Year 6 pupils is 3 : 4. The ratio of Year 6 to Year 7 pupils is 2 : 5. What is the ratio of Year 5 to Year 6 to Year 7 pupils, in its simplest form? [3 marks]

Answer .....

10. Tom is 3 times as old as his sister. In 4 years' time, he will be twice as old as her. How old is Tom now? [3 marks]

Answer .....

11. The sum of three consecutive even numbers is 96. What is the smallest of the three numbers? [2 marks]

Answer .....

12. The **n**th term of a sequence is 4n + 3. [3 marks]

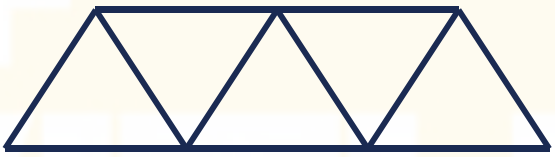
(a) Which term of the sequence is equal to 59?

Answer .....

(b) Explain why 100 cannot be a term in this sequence.

Answer .....

13. Rows of triangles are made from matchsticks. 1 triangle uses 3 matchsticks, 2 triangles use 5, 3 triangles use 7, and so on. [3 marks]



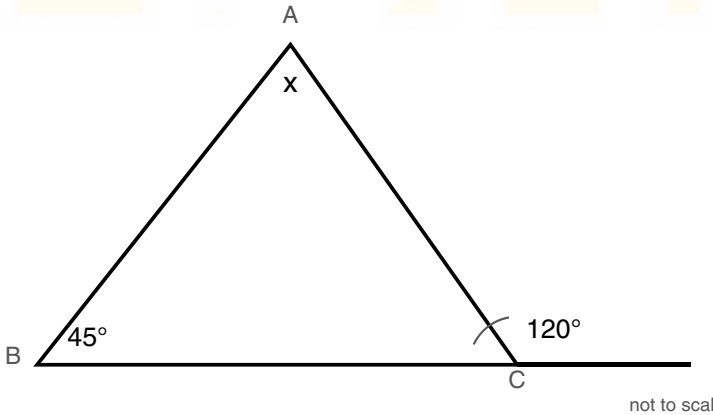
(a) How many matchsticks are needed for a row of 25 triangles?

Answer .....

(b) A row is made from exactly 61 matchsticks. How many triangles does it contain?

Answer .....

14. In the diagram, the base of triangle ABC is extended. The exterior angle at C is 120° and the interior angle at B is 45°. Work out the angle marked **x** at A. [3 marks]



not to scale

Answer x = ... degrees

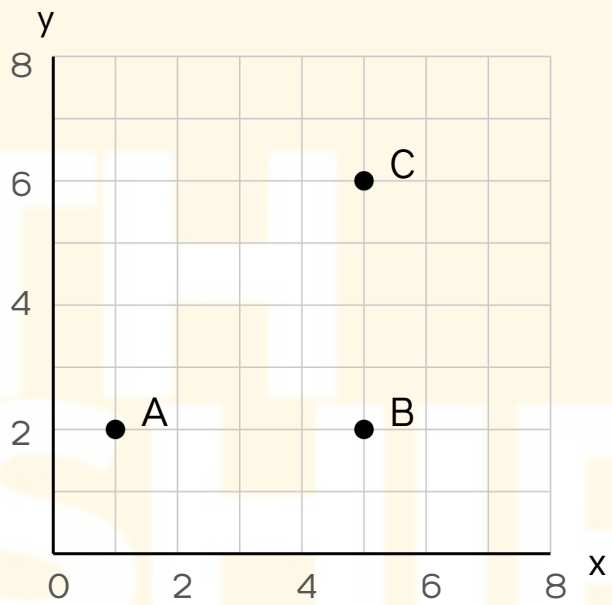
15. The four angles of a quadrilateral are in the ratio 2 : 3 : 4 : 6. Work out the size of the largest angle. [3 marks]

Answer ..... degrees

16. A shape has exactly 3 lines of symmetry and rotational symmetry of order 3. Name the shape, and state the smallest angle through which it can be turned to look exactly the same. [2 marks]

Answer ..... degrees

17. A(1, 2), B(5, 2) and C(5, 6) are three corners of a rectangle. D is the fourth corner, and M is the midpoint of the diagonal AC. Write down the coordinates of D and of M. [3 marks]



Answer

D = (.....)

M = (.....)

18. The mean weight of six parcels is 4.5 kg. Five of the parcels weigh 3 kg, 5 kg, 4 kg, 6 kg and 5 kg. What is the weight of the sixth parcel? [2 marks]

Answer .....

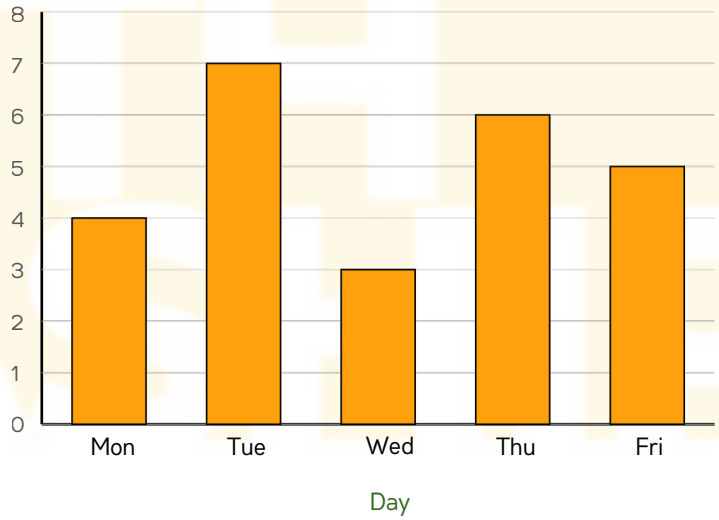
19. The mean age of a family of five is 28 years. The grandmother, who is 68, leaves the room. What is now the mean age of the four people remaining? [3 marks]

Answer ..... years

20. A spinner can land on red, green or blue. The probability of red is 0.4 and the probability of green is 0.35. The spinner is spun 200 times. How many times would you expect it to land on blue? [3 marks]

Answer ..... times

21. The bar chart shows the number of books read each day by a pupil from Monday to Friday. Use it to find the total number of books, the mean number per day, and the number of days on which the pupil read more than the mean. [3 marks]



Answer

total .....

mean days .....

22. Find the largest two-digit number that is a multiple of both 6 and 9. [2 marks]

Answer .....

23. Two bells ring together at exactly 12:00. After that, one bell rings every 40 seconds and the other every 60 seconds. In the following 10 minutes, how many more times do the two bells ring together? [3 marks]

Answer ..... times

24. A solid cube has a total surface area of 150 cm^2. Work out the volume of the cube. [3 marks]

Answer ..... cm^3

25. A clock shows exactly 3:00. Through how many degrees does the **hour** hand turn between 3:00 and 5:30 the same afternoon? [3 marks]

Answer ..... degrees

26. Two towns are 60 km apart. At 10:00 a car leaves town A heading towards town B at 40 km/h. At the same moment a motorbike leaves town B heading towards town A at 50 km/h. At what time do they pass each other? [3 marks]

Answer .....

27. A piggy bank contains only 20p and 50p coins. There are twice as many 20p coins as 50p coins. The total value of the coins is £27. How many 50p coins are there? [3 marks]

Answer .....

28. A path 2 m wide runs all the way around the **inside** edge of a rectangular garden that measures 20 m by 14 m. Work out the area of the path. [4 marks]

Answer ..... m^2

End of Paper

Paper 4

1 **What is the value of the digit 4 in 2 468 013?**

A 40 000 **B** 400 000 **C** 4 000 000 **D** 4000 **E** 40

2 **Work out 7 + 24 ÷ (8 - 2)**

A 5 **B** 9 **C** 11 **D** 31 **E** 15

3 **Which of these numbers is the smallest?**

A 0.3 **B** 0.29 **C** 0.13 **D** 0.031 **E** 0.303

4 **Work out $^{5}/_{6}$ of 540**

A 90 **B** 108 **C** 400 **D** 480 **E** 450

5 **Work out 0.75 × 64**

A 48 **B** 16 **C** 4.8 **D** 480 **E** 32

6 **Work out 35% of 260**

A 65 **B** 91 **C** 9.1 **D** 910 **E** 169

7 In a sale, a price is reduced by 25%. The sale price is £45.

What was the original price?

A £56.25 **B** £33.75 **C** £60 **D** £90 **E** £11.25

8 **£350 is shared in the ratio 4 : 3. How much is the larger share?**

A £150 **B** £175 **C** £250 **D** £200 **E** £210

9 **What is the highest common factor (HCF) of 45 and 60?**

A 5 **B** 3 **C** 9 **D** 180 **E** 15

10 **What is the lowest common multiple (LCM) of 9 and 12?**

A 36 **B** 108 **C** 3 **D** 72 **E** 21

11 **Which of these numbers is a prime number?**

A 91 **B** 89 **C** 87 **D** 93 **E** 95

12 Look at this sequence: 1, 2, 4, 7, 11, 16, ...

What is the next term?

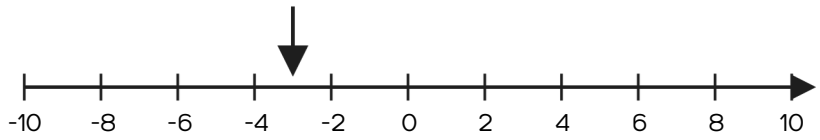
A 20 **B** 21 **C** 22 **D** 24 **E** 23

13 The nth term of a sequence is $5n - 1$.

What is the 15th term?

A 75 **B** 70 **C** 76 **D** 74 **E** 149

14 The arrow on the number line points to a value.



What value is the arrow pointing to?

A -4 **B** 3 **C** -2 **D** -5 **E** -3

15 **Solve $5x - 4 = 2x + 11$**

A 5 **B** 15 **C** 3 **D** 2.14 **E** 7

16 Four consecutive whole numbers add up to 74.

What is the smallest of the four numbers?

A 18 **B** 17 **C** 20 **D** 16 **E** 19

17 M(6, 4) is the midpoint of A(2, 1) and B.

What are the coordinates of B?

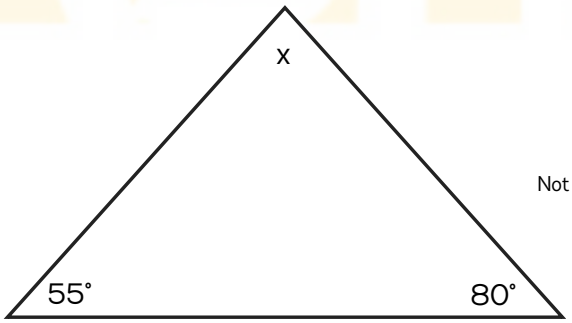
A (10, 7) **B** (4, 3) **C** (8, 5) **D** (10, 5) **E** (4, 7)

18 Three corners of a rectangle are (2, 2), (2, 6) and (7, 6).

What are the coordinates of the fourth corner?

A (7, 6) **B** (2, 6) **C** (5, 4) **D** (7, 2) **E** (9, 2)

19 The diagram shows a triangle.



Not to scale

Work out the size of the angle marked x.

A 55° **B** 80° **C** 135° **D** 25° **E** 45°

20 **What is the size of each interior angle of a regular octagon?**

A 120° **B** 135° **C** 1080° **D** 45° **E** 144°

21 Two of the angles in a triangle are 47° and 68°.

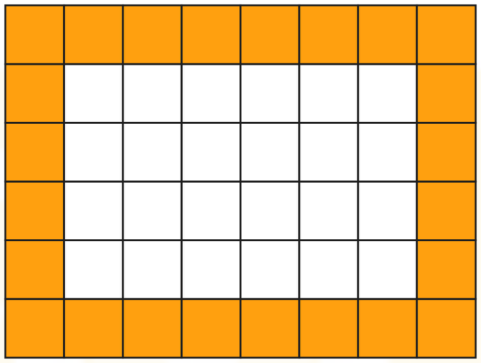
What is the size of the third angle?

A 75° **B** 45° **C** 65° **D** 115° **E** 25°

22 **A parallelogram has a base of 9 cm and a perpendicular height of 6 cm. What is its area?**

A 15 cm² **B** 30 cm² **C** 108 cm² **D** 54 cm² **E** 27 cm²

23 The diagram is made of square tiles. Each tile measures 50 cm by 50 cm.



What is the total area of the shaded tiles?

A 24 m² **B** 12 m² **C** 3 m² **D** 48 m² **E** 6 m²

24 A rectangular field measures 15 m by 10 m. A pond measuring 4 m by 3 m is dug out.

What area of the field is left?

A 138 m² **B** 162 m² **C** 150 m² **D** 12 m² **E** 130 m²

25 A cuboid has a volume of 96 cm³. Its length is 8 cm and its width is 4 cm.

What is its height?

A 3 cm **B** 4 cm **C** 12 cm **D** 24 cm **E** 6 cm

26 **A cube has a total surface area of 216 cm². What is the length of one edge?**

A 6 cm **B** 36 cm **C** 9 cm **D** 4 cm **E** 216cm

27 **How many millilitres are there in 3.75 litres?**

A 375 ml **B** 37 500 ml **C** 37.5 ml **D** 3750 ml **E** 3.75 ml

28 **Work out 2.4 kg – 750 g. Give your answer in kilograms.**

A 1.75 kg **B** 1.7 kg **C** 3.15 kg **D** 1.6 kg **E** 1.65 kg

29 A train leaves at 08:37. The journey takes 1 hour 48 minutes.

At what time does it arrive?

A 10:25 **B** 10:15 **C** 09:25 **D** 10:35 **E** 06:49

30 **A car travels 240 km in 3 hours. What is its average speed?**

A 720 km/h **B** 80 km/h **C** 60 km/h **D** 90 km/h **E** 75 km/h

31 **A train travels at 60 km/h for 25 minutes. How far does it go?**

A 1500 km **B** 15 km **C** 25 km **D** 24 km **E** 35 km

32 Priya buys 4 pens costing £1.35 each and pays with a £10 note.

How much change should she get?

A £5.40 **B** £4.40 **C** £6.60 **D** £4.60 **E** £5.60

33 Five friends compare how many books they read last month. Four of them read 6, 9, 4 and 11 books. If the mean number of books read across all five friends is 8,

how many books did the fifth friend read?

A 8 **B** 9 **C** 10 **D** 12 **E** 6

34 The mean of eight numbers is 15. One number, 22, is then removed.

What is the mean of the remaining seven numbers?

A 14 **B** 15 **C** 16 **D** 13 **E** 98

35 A bag holds 4 red, 6 blue and 2 yellow counters. One counter is taken at random.

What is the probability that it is blue?

A $^1/_3$ **B** $^1/_2$ **C** $^1/_6$ **D** $^2/_3$ **E** $^1/_4$

36 A game can only be won or lost. The probability of winning is 0.15.

What is the probability of losing?

A 0.15 **B** 1.15 **C** 0.85 **D** 0.75 **E** 0.95

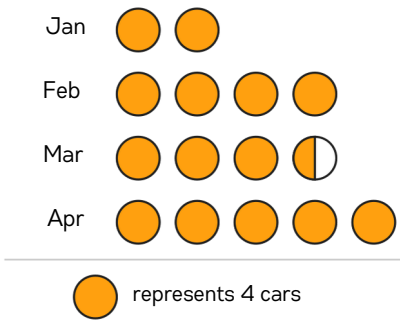
37 The two-way table shows how 80 pupils voted for a day trip.

	Cinema	Park	Museum
Year 5	15	12	9
Year 6	18	?	8

How many Year 6 pupils chose the park?

A 12 **B** 20 **C** 62 **D** 18 **E** 8

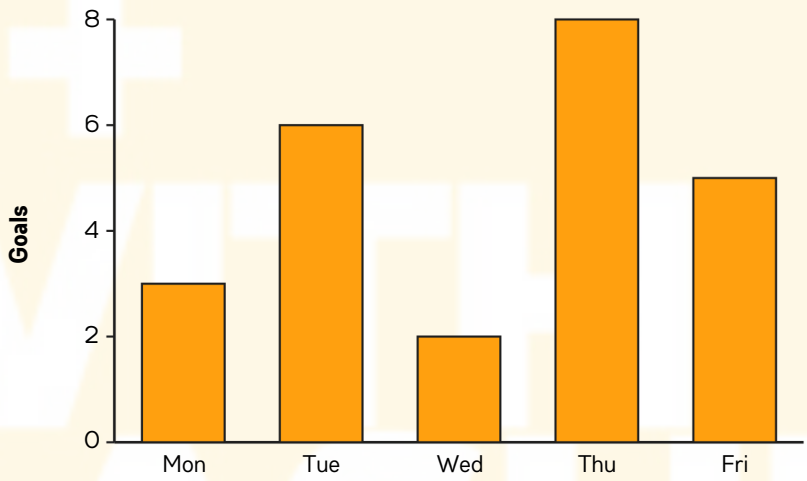
38 The pictogram shows how many cars a garage sold each month.



How many cars were sold in March?

A 3½ **B** 12 **C** 16 **D** 7 **E** 14

39 The bar chart shows how many goals were scored each day.



How many more goals were scored on the best day than on the worst day?

A 6 **B** 8 **C** 2 **D** 5 **E** 10

40 The temperature was 4°C. It then fell by 11°C.

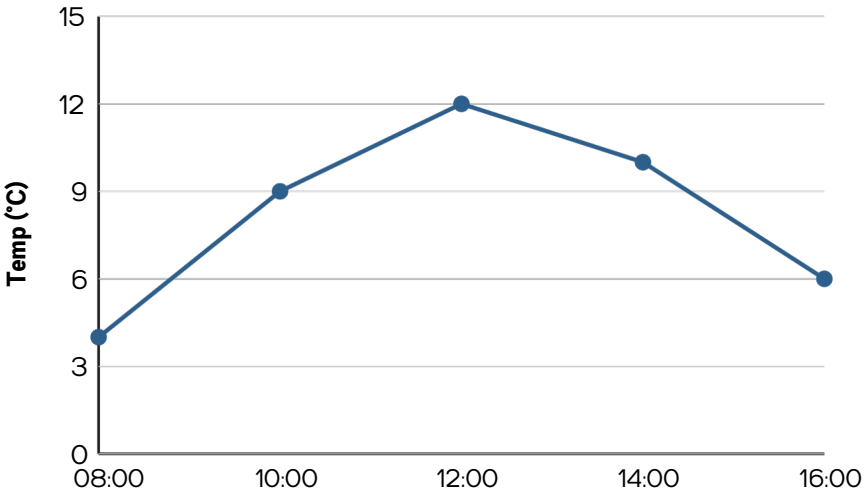
What is the new temperature?

A 7°C **B** 15°C **C** - 7°C **D** -15°C **E** -4°C

41 **What is the difference between -3 and 8?**

A 5 **B** -11 **C** -5 **D** 11 **E** 24

42 The line graph shows the temperature during one day.



What was the temperature at 12:00?

A 9°C **B** 12°C **C** 10°C **D** 6°C **E** 4°C

43 **Which of these is the best estimate of 4834 ÷ 48?**

A 100 **B** 10 **C** 1 000 **D** 50 **E** 200

44 **How many edges does a square-based pyramid have?**

A 8 **B** 5 **C** 6 **D** 10 **E** 12

45 **Which of these solids has exactly 6 faces and 8 vertices?**

A a triangular prism **B** a cuboid **C** a square-based pyramid **D** a tetrahedron **E** a hexagonal prism

46 Rosa is facing East. She turns anticlockwise through 180°.

Which direction is she now facing?

A North **B** East **C** West **D** South **E** North-east

47 A two-digit number is a multiple of 7, and its two digits add up to 8.

What is the number?

A 56 **B** 42 **C** 28 **D** 35 **E** 63

48 A book costs £8. In a sale its price is reduced by 15%. Mrs Khan buys 5 of the books at the sale price.

How much does she pay altogether?

A £40 **B** £34 **C** £6.80 **D** £29 **E** £6

49 A train travels 90 km in 1 hour 15 minutes.

What is its average speed?

A 75 km/h **B** 60 km/h **C** 72 km/h **D** 112.5 km/h **E** 80 km/h

50 A gardener plants trees in a straight line along a 60 m path, 4 m apart, with a tree at each end of the path.

How many trees does he plant?

A 15 **B** 14 **C** 17 **D** 16 **E** 240

51 Two whole numbers have a sum of 50 and a difference of 12.

What is the larger of the two numbers?

A 19 **B** 38 **C** 25 **D** 44 **E** 31

52 A recipe for 4 people needs 300 g of flour.

How much flour is needed to make enough for 10 people?

A 750 g **B** 600 g **C** 1200 g **D** 120 g **E** 700 g

53 A cyclist and a runner start 30 km apart and travel towards each other. The cyclist rides at 18 km/h and the runner runs at 12 km/h.

After how many minutes do they meet?

A 30 **B** 60 **C** 45 **D** 100 **E** 90

End of Paper

Check Your Answers

To check your answers and access the full marking scheme for this book, please visit the website below and follow the instructions provided.

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