Maths Mock Test Paper 26

Name: _____ Date: _____

Time allowed: **50 minutes** **50 questions**, 1 mark each

Answer **every** question. Each question has five options, **A** to **E**, and exactly one is correct. Work out the answer and mark the letter you have chosen. Marks are not taken away for a wrong answer, so it is worth having a go at every question. **Calculators and rulers are not allowed.**

Q1. A robot is facing north. It turns 90° clockwise, and then it turns 180°. Which way is it facing now?

A. North

B. East

C. South

D. West

E. North-east

Q2. Four of these calculations give the same answer. Which one gives a different answer?

A. 5 × 9 *B.* 6 × 8 *C.* 4 × 12 *D.* 3 × 16 *E.* 2 × 24

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Q3. The table shows the start times of the programmes on a TV channel one evening. Each programme runs until the next one starts. Which programme lasts exactly 35 minutes?

Programme	Starts
News	17:00
Quiz	17:30
Cartoons	18:05
Weather	18:30
Film	18:40
Close	20:15

A. News *B.* Quiz *C.* Cartoons *D.* Weather *E.* Film

Q4. A car's mileometer shows 29,996 miles. What will it show after 7 more miles?

A. 29,003 *B.* 30,013 *C.* 30,003 *D.* 29,993 *E.* 300,003

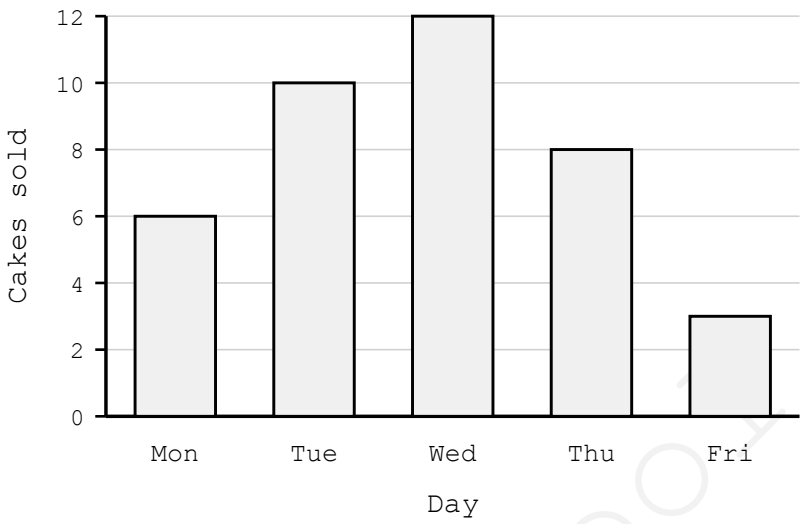
Q5. The table shows the heights of four children. How much taller is Ana than Ben?

Child	Height
Ana	1.42 m
Ben	128 cm
Cai	1.35 m
Dev	139 cm

A. 1.4 cm *B.* 4 cm *C.* 24 cm *D.* 114 cm *E.* 14 cm

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Q6. The bar chart shows how many cakes a café sold each day. On which day did it sell twice as many cakes as on Monday?



A. Monday *B.* Tuesday *C.* Wednesday *D.* Thursday *E.* Friday

Q7. Jake sorted some numbers into this Carroll diagram. He put one number in the wrong box. Which number is it?

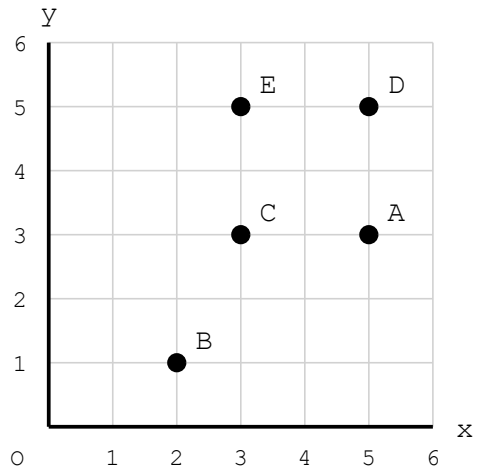
	Even	**Odd**
Multiple of 5	10, 20	15, 35
Not a multiple of 5	8, 12	7, 14, 21

A. 14 *B.* 7 *C.* 8 *D.* 10 *E.* 15

Q8. Grace has 20 marbles. She gives 1/4 of them to Amir and 1/5 of them to Jo. How many marbles does she keep?

A. 9 *B.* 15 *C.* 11 *D.* 16 *E.* 18

Q9. Zara was asked to plot the point (5, 3), but she swapped the two numbers round by mistake. Which point did she plot?



A. A *B.* B *C.* C *D.* D *E.* E

Q10. The table shows the temperature in five towns one winter morning. Which town was 3 degrees colder than Hull?

Town	Temperature
Hull	-2°C
York	-5°C
Leeds	1°C
Ripon	-3°C
Selby	0°C

A. Hull *B.* York *C.* Leeds *D.* Ripon *E.* Selby

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Q11. A class starts reading a 180-page book on Monday 3 June. They read 12 pages every school day, Monday to Friday, and none at weekends. On which day do they read the last page?

A. Friday 21 June

B. Friday 14 June

C. Monday 17 June

D. Tuesday 18 June

E. Monday 24 June

Q12. One angle of a rhombus is 64°. Which of these lists all four of its angles?

A. 64°, 64°, 26°, 26°

B. 64°, 116°, 90°, 90°

C. 64°, 64°, 64°, 168°

D. 64°, 96°, 100°, 100°

E. 64°, 64°, 116°, 116°

Q13. Which of these is NOT the same as three quarters of 60?

A. 75% of 60

B. 60 ÷ 4 × 3

C. 0.75 × 60

D. 60 ÷ 3 × 4

E. 3 × 60 ÷ 4

Q14. The point (a, b) lies in the top-left quadrant of a coordinate grid. In which quadrant does the point (b, a) lie?

A. Top-left

B. Top-right

C. Bottom-left

D. Bottom-right

E. On the x-axis

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Q15. Amir says that 2n is always bigger than n + 2. Which value of n shows that he is wrong?

A. 3 *B.* 2 *C.* 4 *D.* 5 *E.* 10

Q16. Which of these numbers gives the same answer when it is rounded to the nearest 10 as when it is rounded to the nearest 100?

A. 1,247 *B.* 2,048 *C.* 4,351 *D.* 3,596 *E.* 5,555

Q17. Jess meant to type 4,807 into a calculator, but she typed 4,087 by mistake. What must she add to the number she typed to put it right?

A. 72 *B.* 720 *C.* 700 *D.* 780 *E.* 7,200

Q18. A drink is made by mixing orange juice and lemonade in the ratio 2 : 7. Which of these jugs has been mixed in the right ratio?

A. 4 cups orange, 16 cups lemonade

B. 5 cups orange, 10 cups lemonade

C. 7 cups orange, 2 cups lemonade

D. 3 cups orange, 8 cups lemonade

E. 6 cups orange, 21 cups lemonade

Q19. What is the smallest number that can be added to 150 to make a square number?

A. 19 *B.* 6 *C.* 29 *D.* 46 *E.* 50

Q20. Posting a parcel costs £3 for the first kilogram, then 80p for every extra 200 g. How much does it cost to post a parcel weighing 2.4 kg?

A. £5.60 *B.* £9.40 *C.* £8.60 *D.* £7.80 *E.* £4.12

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Q21. Which of these is moving the fastest?

A. A dog running 12 m in 2 seconds

B. A horse running 35 m in 5 seconds

C. A bike going 300 m in 1 minute

D. A car going 1 km in 4 minutes

E. A boy running 100 m in 25 seconds

Q22. The table shows the charges at a car park. Kim parks from 10:40 until 13:05. How much does she pay?

Time parked	**Charge**
Up to 1 hour	£1.50
Up to 2 hours	£2.80
Up to 4 hours	£4.50
Over 4 hours	£8.00

A. £4.50 *B.* £1.50 *C.* £2.80 *D.* £8.00 *E.* £7.30

Q23. Six identical squares are placed in two rows of three to make a rectangle. The perimeter of the rectangle is 50 cm. What is its area?

A. 25 cm^2 *B.* 60 cm^2 *C.* 90 cm^2 *D.* 250 cm^2 *E.* 150 cm^2

Q24. Which of these is equal to 25 × 44?

A. 25 × 40 + 4

B. 20 × 44 + 5

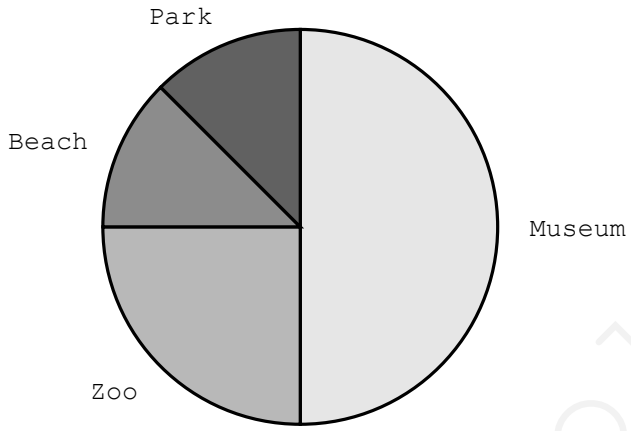
C. 100 × 11

D. 50 × 88

E. 5 × 5 × 4 × 4

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Q25. 40 pupils voted for a class trip, and the pie chart shows the results. The beach and the park got the same number of votes. How many pupils voted for the beach?



A. 4 *B.* 8 *C.* 10 *D.* 5 *E.* 20

Q26. A number machine multiplies by 4 and then subtracts 6. Which number comes out of the machine exactly the same as it went in?

A. −2 *B.* 1.5 *C.* 3 *D.* 6 *E.* 2

Q27. Eggs cost 25p each, or £2.40 for a box of 12. Ella needs exactly 30 eggs. What is the least she can pay?

A. £6.00 *B.* £6.30 *C.* £7.20 *D.* £7.50 *E.* £5.80

Q28. Tom rounds 2,451 to the nearest hundred, and then rounds his answer to the nearest thousand. Amy rounds 2,451 straight to the nearest thousand. What is the difference between their final answers?

A. 1,000 *B.* 0 *C.* 451 *D.* 500 *E.* 549

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Q29. A square and an equilateral triangle have the same perimeter. The area of the square is 36 cm². How long is one side of the triangle?

A. 4 cm *B.* 6 cm *C.* 8 cm *D.* 9 cm *E.* 12 cm

Q30. Sam walks to school. When he walks at 5 km/h, the journey takes 6 minutes longer than when he walks at 6 km/h. How far is it to school?

A. 0.5 km *B.* 1.5 km *C.* 6 km *D.* 3 km *E.* 30 km

Q31. A regular hexagon, a square and one other regular polygon fit together around a point with no gaps. How many sides does the other polygon have?

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

Q32. Which of these sequences has a 20th term of 58?

A. 1, 4, 7, 10, …

B. 3, 6, 9, 12, …

C. 18, 20, 22, 24, …

D. 5, 8, 11, 14, …

E. 2, 5, 8, 11, …

Q33. On a school trip, the ratio of boys to girls is 3 : 4 and the ratio of girls to teachers is 8 : 1. Which of these could be the total number of people on the trip?

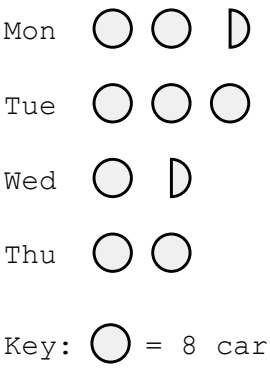
A. 28 *B.* 35 *C.* 36 *D.* 40 *E.* 30

Q34. In a number wall, each brick holds the sum of the two bricks directly below it. The bottom row of a wall is −5, 3 and x, and the single brick on top is 4. What is x?

A. −3 *B.* 3 *C.* 1 *D.* 5 *E.* 7

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Q35. The pictogram shows how many cars passed a school on four days. Friday's row is missing. The mean number of cars over the five days was 20. How many cars passed on Friday?



A. 20 *B.* 24 *C.* 32 *D.* 28 *E.* 36

Q36. Two whole numbers that are next to each other multiply to make 552. What do they add up to?

A. 43 *B.* 45 *C.* 46 *D.* 49 *E.* 47

Q37. A rectangle of card measures 20 cm by 15 cm. A 4 cm square is cut from each corner, and the sides are folded up to make an open box. What is the volume of the box?

A. 84 cm^3 *B.* 336 cm^3 *C.* 236 cm^3 *D.* 704 cm^3 *E.* 1,200 cm^3

Q38. In this magic square, every row, column and diagonal adds up to the same total. What number goes in the square marked ?

−3	2	1
4		?
−1	−2	3

A. −2 *B.* 0 *C.* −4 *D.* 2 *E.* 4

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Q39. Pale blue paint is made by mixing blue paint and white paint in the ratio 1 : 4. Jo has 3 litres of blue paint and 10 litres of white paint. What is the most pale blue paint she can make?

A. 12.5 litres

B. 10 litres

C. 13 litres

D. 15 litres

E. 3.75 litres

Q40. How many of the factors of 36 are also multiples of 3?

A. 3 *B.* 4 *C.* 5 *D.* 6 *E.* 9

Q41. $a + b = 12$ and $a - b = 4$. What is the value of $a \times b$?

A. 16 *B.* 20 *C.* 32 *D.* 35 *E.* 48

Q42. In triangle ABC, sides AB and AC are equal and angle BAC is 40°. The side BC is made longer, past C, to a point D. What is the size of angle ACD?

A. 40° *B.* 110° *C.* 70° *D.* 100° *E.* 140°

Q43. 3 apples and 2 pears weigh 390 g. 1 apple and 2 pears weigh 230 g. All apples weigh the same and all pears weigh the same. How much does one pear weigh?

A. 65 g *B.* 80 g *C.* 115 g *D.* 75 g *E.* 155 g

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Q44. Today is Tuesday 26 February, in a year that is not a leap year. What will the day and date be exactly 3 weeks from today?

A. Tuesday 16 March

B. Tuesday 17 March

C. Tuesday 18 March

D. Wednesday 19 March

E. Tuesday 19 March

Q45. Without working them out exactly, which of these calculations must give an answer greater than 300?

A. 612 ÷ 1.9

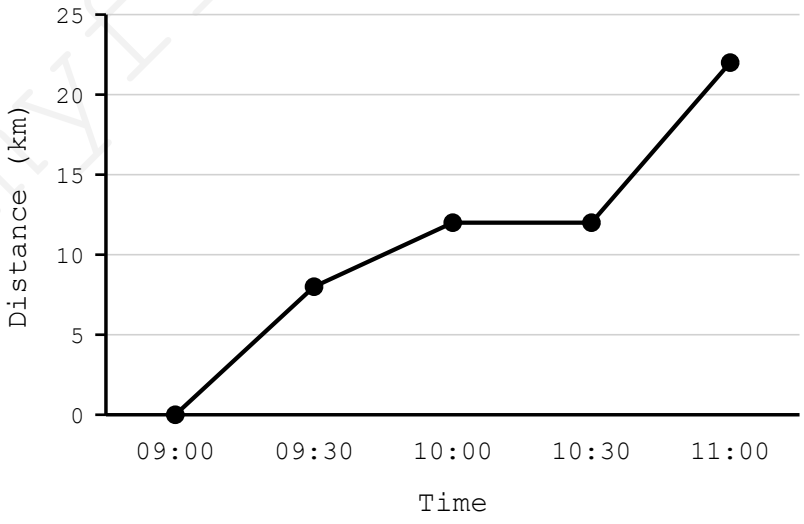
B. 29.8 × 9.9

C. 599 ÷ 2.1

D. 301 × 0.99

E. 5.9 × 49.5

Q46. The graph shows how far a cyclist is from home during a ride. What was her speed during the fastest half hour?



A. 5.5 km/h *B.* 20 km/h *C.* 10 km/h *D.* 11 km/h *E.* 22 km/h

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Q47. A medicine dose is 15 mg for every kilogram a child weighs. The medicine contains 120 mg in every 5 ml. How many millilitres should a child who weighs 24 kg be given?

A. 3 ml *B.* 10 ml *C.* 25 ml *D.* 72 ml *E.* 15 ml

Q48. Mo scored 18 out of 25 in a maths test and 34 out of 40 in a science test. Written as percentages, how much higher was his science score?

A. 3% *B.* 9% *C.* 13% *D.* 15% *E.* 16%

Q49. Which of these has the same value as 3.6 ÷ 0.04?

A. 360 ÷ 4 *B.* 36 ÷ 4 *C.* 3,600 ÷ 4 *D.* 3.6 ÷ 4 *E.* 0.36 ÷ 4

Q50. A straight line is drawn from (−3, −1) to (5, 3). How many points with whole-number coordinates lie on the line, including both ends?

A. 3 *B.* 4 *C.* 8 *D.* 5 *E.* 9

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