Maths Mock Test Paper 9

Name: _____ Date: _____

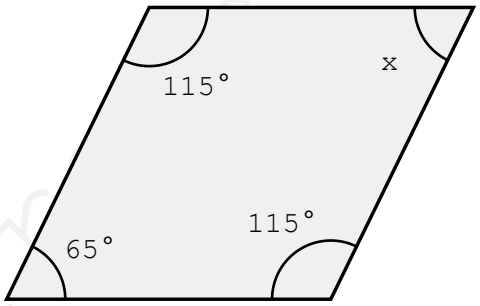
Time allowed: 50 minutes 50 questions, 1 mark each

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 meeting finishes at 14:10. It lasted 45 minutes. At what time did it start?

A. 13:15 B. 13:25 C. 13:35 D. 13:45 E. 14:55

Q2. Work out the size of angle x in this rhombus.



A. 55° B. 65° C. 75° D. 115° E. 125°

Q3. Nadia counts in fours and Tom counts in sixes, both starting at zero. Which of these numbers do they both say?

A. 18 B. 28 C. 32 D. 42 E. 24

Q4. 36 children are put into equal teams with nobody left out. Which of these team sizes is NOT possible?

A. 3 B. 4 C. 6 D. 8 E. 9

Q5. What is the next number in this sequence?

2, 4, 8, 16, ?

A. 18 B. 20 C. 24 D. 32 E. 64

Q6. A recipe for 4 people uses 200 g of rice. Ali works out that 6 people need 300 g. Which statement is true?

A. Ali is wrong, because 6 people need 250 g

B. Ali is right, because one person needs 50 g

C. Ali is wrong, because 6 people need 350 g

D. Ali is wrong, because 6 people need 400 g

E. Ali is wrong, because 6 people need 600 g

Q7. A cyclist rides at a steady 12 km/h for 4 hours. How far does the cyclist travel?

A. 3 km B. 16 km C. 36 km D. 48 km E. 60 km

Q8. Four of these points lie on one straight line. Which point is the odd one out?

A. (1, 4) B. (3, 4) C. (6, 4) D. (8, 4) E. (4, 6)

Q9. Round 265 to the nearest 10.

A. 260 B. 265 C. 270 D. 280 E. 300

Q10. Ben says that 0.5 is smaller than 0.45 because 45 is bigger than 5. What is wrong with his reasoning?

A. 0.5 is 5 hundredths, so it really is the smaller number

B. 0.5 is 5 tenths, while 0.45 is only 4 tenths and 5 hundredths

C. Nothing is wrong: 0.45 is larger because it has more digits

D. The two numbers are worth exactly the same

E. 0.45 is 45 tenths, which is why it is larger

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Q11. A hall has 38 rows of 52 seats. A pupil estimates the total by rounding each number to the nearest 10. What estimate does this give, and how does it compare with the true total?

A. 2,000, which is below the true total

B. 1,500, which is below the true total

C. 2,500, which is above the true total

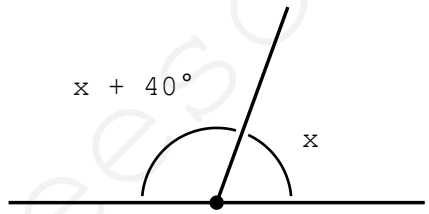
D. 1,600, which is below the true total

E. 2,000, which is above the true total

Q12. How many prime numbers are there between 1 and 20?

A. 6 B. 7 C. 8 D. 9 E. 10

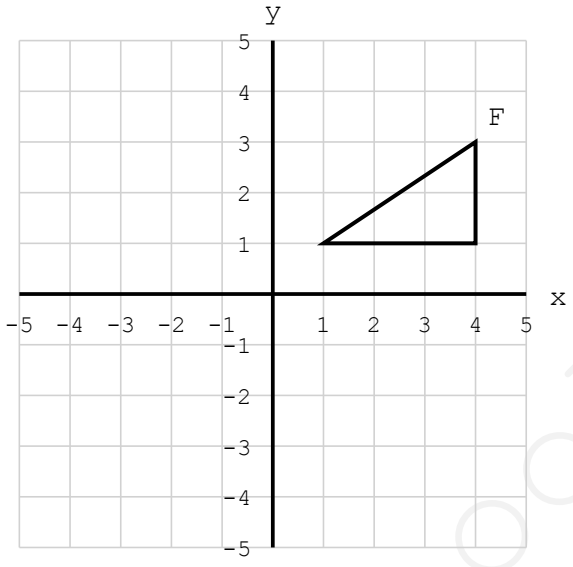
Q13. Work out the value of x.



A. 55° B. 60° C. 70° D. 80° E. 110°

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Q14. The triangle is reflected in the y-axis. What are the coordinates of the image of corner F?



A. (−4, 3) B. (4, −3) C. (−4, −3) D. (−3, 4) E. (3, −4)

Q15. Two different rectangles each have a perimeter of 20 cm. Which statement must be true?

A. They must have the same area

B. Their length and width add to 10 cm

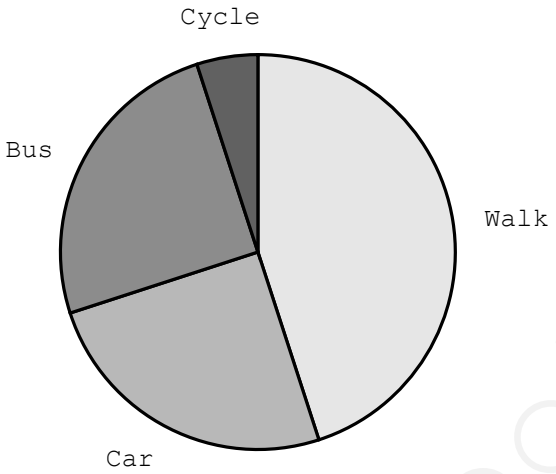
C. They must both be squares

D. They must each have an area of 25 cm^2

E. They must each have a length of 10 cm

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Q16. The pie chart shows how 40 pupils travel to school, and 10 of them come by bus. What is the size of the angle of the bus sector?



A. 36° B. 45° C. 60° D. 72° E. 90°

Q17. What must be added to 6.5 to make 10?

A. 3.05 B. 2.5 C. 3.5 D. 4.5 E. 16.5

Q18. Maya spends 2/5 of her money on a book and then £3 on a drink. She has £9 left. How much money did she start with?

A. £15 B. £20 C. £24 D. £25 E. £30

Q19. A parking ticket is bought at 10:45 and lasts 2 hours 45 minutes. What time does it run out?

A. 12:30 B. 13:00 C. 13:15 D. 13:30 E. 13:45

Q20. In a school of 64 pupils the ratio of boys to girls is 5 : 3. How many boys are there?

A. 24 B. 32 C. 35 D. 40 E. 45

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Q21. A 750 g box of cereal costs £3.00 and a 1.2 kg box costs £4.32. Which box is better value, and by how much for each 100 g?

A. The 750 g box, by 4p

B. The 1.2 kg box, by 6p

C. The 750 g box, by 2p

D. Neither: they are the same value

E. The 1.2 kg box, by 4p

Q22. A train leaves at 09:48 and arrives at 12:06. How long is the journey?

A. 2 hours 8 minutes

B. 2 hours 12 minutes

C. 2 hours 18 minutes

D. 2 hours 22 minutes

E. 2 hours 42 minutes

Q23. Which of these statements is true whichever numbers are chosen?

A. Adding two prime numbers gives a prime number

B. A multiple of 3 is always odd

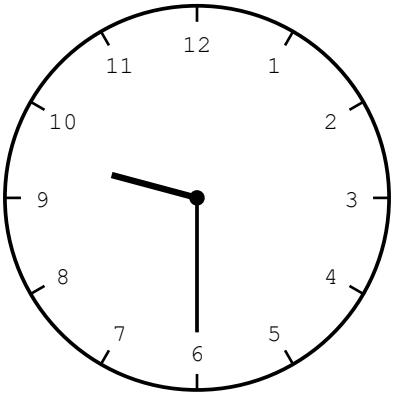
C. A square number always has an even number of factors

D. Multiplying two even numbers gives an odd number

E. Adding two odd numbers gives an even number

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Q24. What is the size of the angle between the hands of this clock?



A. 75° B. 90° C. 105° D. 120° E. 135°

Q25. In a school of 240 pupils, 45% are boys. How many boys are there?

A. 96 B. 105 C. 108 D. 110 E. 132

Q26. A square has an area of 36 cm². Every side is then made twice as long. What is the area of the new square?

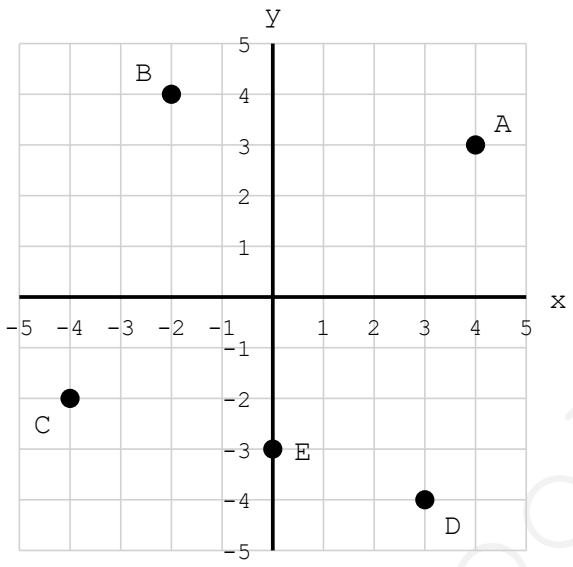
A. 72 cm² B. 108 cm² C. 216 cm² D. 144 cm² E. 1,296 cm²

Q27. I think of a number, subtract 4 and then multiply by 2. The answer is 18. What was my number?

A. 9 B. 11 C. 13 D. 14 E. 22

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Q28. Which point lies on the y-axis?



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

Q29. Sam works out 6 × 48 by starting with 6 × 50 = 300 and then subtracting 6. What has Sam done wrong?

A. Sam should have added 12 instead of subtracting 6

B. Sam should have subtracted 12, not 6

C. Sam should have started with 6 × 40

D. Sam should have subtracted 2, not 6

E. Sam has made no mistake

Q30. Which of these pairs of temperatures has the largest difference between them?

A. −7 °C and 3 °C

B. −2 °C and 6 °C

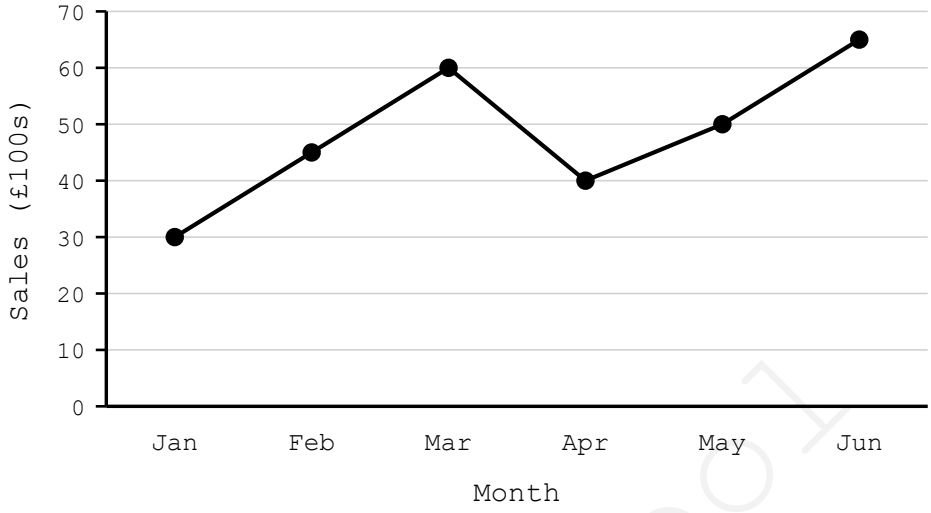
C. 4 °C and −5 °C

D. −12 °C and −1 °C

E. 0 °C and 7 °C

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Q31. The line graph shows a shop's sales each month. By how much did the sales fall from March to April?



A. 20 B. 25 C. 30 D. 35 E. 40

Q32. A shelf is 2 m long. Books 25 mm thick are stood upright side by side along it. How many books fit on the shelf?

A. 8 B. 50 C. 100 D. 800 E. 80

Q33. Which of these years is NOT a leap year?

A. 2020 B. 2024 C. 2028 D. 2030 E. 2032

Q34. A number has been rounded to 2 decimal places to give 3.70. Which of these could NOT be the original number?

A. 3.695 B. 3.699 C. 3.702 D. 3.703 E. 3.705

Q35. Each of the digits 4, 0, 7 and 2 is used once to make a four-digit number. What is the smallest number that can be made?

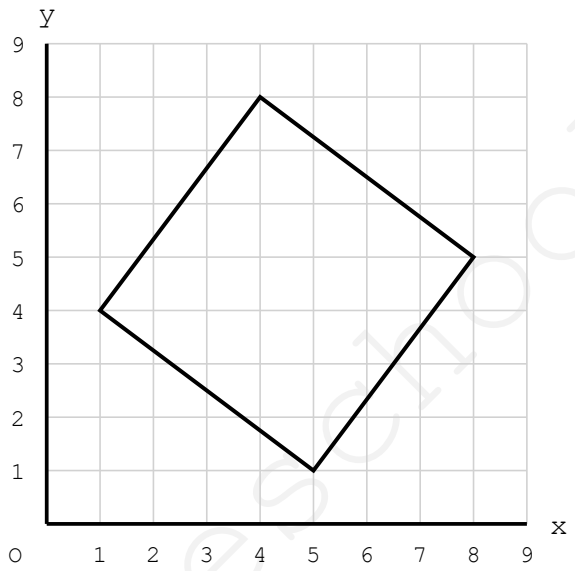
A. 2,047 B. 0,247 C. 2,074 D. 2,407 E. 4,027

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Q36. 2/3 of the pupils in a school are girls. 3/8 of the girls play netball. What fraction of the whole school play netball?

A. 1/6 B. 1/4 C. 5/11 D. 9/16 E. 3/4

Q37. What is the perimeter of this square, in units?



A. 12 B. 16 C. 18 D. 20 E. 24

Q38. A loaf of bread takes 0.35 kg of flour. A baker starts with a 10 kg bag. How many whole loaves can be made, and how much flour is left?

A. 28 loaves, with 200 g left

B. 28 loaves, with 500 g left

C. 29 loaves, with 150 g left

D. 25 loaves, with 1.25 kg left

E. 30 loaves, with 500 g left

Q39. Which of these numbers has exactly 3 factors?

A. 15 B. 21 C. 25 D. 27 E. 33

Q40. A ticket costs £8 for an adult and £5 for a child. A group of 9 people pays £57 altogether. How many adults are in the group?

A. 4 B. 3 C. 5 D. 6 E. 7

Q41. Use the two-way table. A senior member is chosen at random. What is the probability that the member is male?

Members	Junior	Senior	Total
Male	24	36	60
Female	31	?	70
Total	55	75	130

A. 6/25 B. 1/3 C. 9/25 D. 2/5 E. 12/25

Q42. A shop is open from 09:30 to 18:00 on each of 6 days. How many hours is it open in the week?

A. 45 hours B. 48 hours C. 51 hours D. 54 hours E. 57 hours

Q43. The nth term of a sequence is 4n + 3. Which of these numbers is a term of the sequence?

A. 45 B. 51 C. 48 D. 54 E. 60

Q44. In the number 3.75, the digit 7 has a certain value. In which of these numbers is the 7 worth ten times as much?

A. 17.2 B. 0.71 C. 3.07 D. 0.07 E. 570

Q45. A cyclist leaves a village at 08:00 travelling at 12 km/h. At 09:00 a car leaves the same village along the same road at 36 km/h. At what time does the car catch up with the cyclist?

A. 09:20 B. 09:30 C. 09:45 D. 10:00 E. 10:30

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Q46. A number is rounded to the nearest 1,000 and gives 7,000. What is the SMALLEST possible value?

A. 6,001 B. 6,499 C. 6,500 D. 6,501 E. 7,000

Q47. A rectangular field measures 60 m by 40 m. A path 1 m wide runs all the way round the inside edge of the field. What area of the field is not covered by the path?

A. 2,204 m² B. 2,320 m² C. 2,242 m² D. 2,116 m² E. 2,280 m²

Q48. What is 500 × 3 − 750?

A. 650 B. 700 C. 750 D. 800 E. 850

Q49. The lowest point of a valley is 45 m below sea level. A plane flies 1,200 m above sea level directly overhead. What is the distance between the plane and the valley floor?

A. 1,155 m B. 1,165 m C. 1,235 m D. 1,245 m E. 1,255 m

Q50. Shortbread uses flour and butter in the ratio 5 : 2. Sara has 700 g of flour and 300 g of butter. Which ingredient runs out first, and how much of the other is left?

A. The flour, with 20 g of butter left

B. The butter, with 50 g of flour left

C. The flour, with 60 g of butter left

D. The butter, with 250 g of flour left

E. Neither: they run out together

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