Maths Mock Test Paper 4

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. Which has the larger area, a rectangle measuring 6 cm by 4 cm or a square of side 5 cm?

A. The rectangle, by 1 cm²

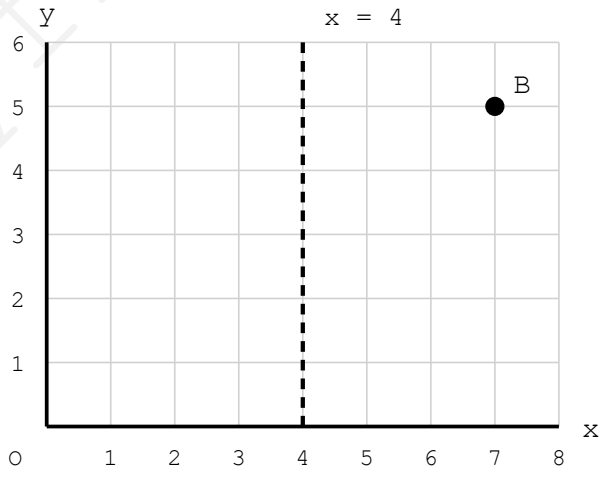
B. The square, by 1 cm²

C. The rectangle, by 2 cm²

D. The square, by 2 cm²

E. They have the same area

Q2. Point B is reflected in the dashed mirror line. What are the coordinates of its image?



A. (1, 5) B. (2, 5) C. (3, 5) D. (1, 3) E. (7, 1)

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Q3. A shirt costs £20. In a sale it is reduced by 10%. How much money is taken off the price?

A. £0.20 B. £2 C. £4 D. £10 E. £18

Q4. If p = 15, what is the value of p − 9?

A. 4 B. 5 C. 6 D. 24 E. 135

Q5. A shop's bank balance is −£25. The shop pays in £40. What is the new balance?

A. −£65 B. −£15 C. £15 D. £25 E. £65

Q6. A packet holds 8 biscuits. How many biscuits are there in 7 packets?

A. 15 B. 48 C. 54 D. 56 E. 64

Q7. A train leaves at 07:50 and the journey takes 2 hours 10 minutes. At what time does it arrive?

A. 09:40 B. 09:50 C. 10:00 D. 10:10 E. 10:20

Q8. A bottle holds 1.5 litres of water. Three glasses of 200 ml each are poured from it. How much water is left?

A. 600 ml B. 900 ml C. 1,100 ml D. 1,300 ml E. 1,480 ml

Q9. How many days are there in February in a leap year?

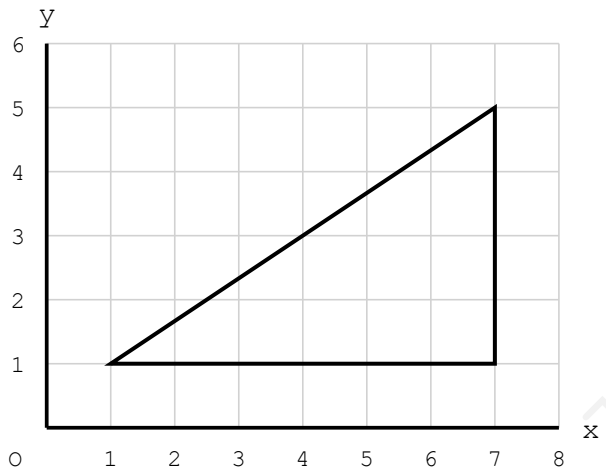
A. 27 B. 28 C. 29 D. 30 E. 31

Q10. Ella rounds a number to the nearest ten and gets 60. Which of these could her number have been?

A. 52 B. 54 C. 56 D. 66 E. 67

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Q11. What is the area of this triangle, in squares?



A. 10 B. 12 C. 14 D. 20 E. 24

Q12. In a test Ana scored 18 out of 25. What is her score as a percentage?

A. 18% B. 36% C. 62% D. 72% E. 75%

Q13. Convert 12.5 cm to millimetres.

A. 1.25 mm B. 12.5 mm C. 125 mm D. 1,250 mm E. 12,500 mm

Q14. A rectangle measures 18 cm by 12 cm. What is its perimeter?

A. 30 cm B. 48 cm C. 54 cm D. 60 cm E. 216 cm

Q15. A lorry leaves at 22:45 and the journey takes 3 hours 40 minutes. At what time does it arrive?

A. 01:25 B. 01:45 C. 02:05 D. 02:25 E. 02:45

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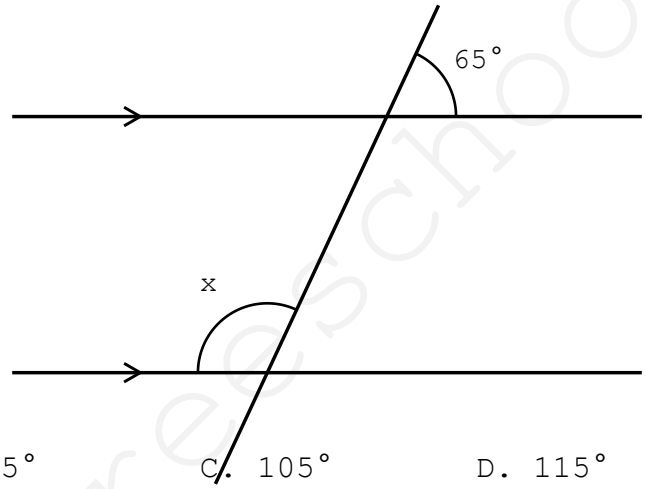
Q16. n stands for a whole number. Which of these is always an even number?

A. n + 2 B. 2n + 1 C. 3n D. n × n E. 4n + 2

Q17. A class of 32 pupils is going to a museum. Each minibus seats 12 pupils. How many minibuses are needed?

A. 2 B. 3 C. 4 D. 5 E. 6

Q18. The two horizontal lines are parallel. Work out the size of angle x.



A. 55° B. 65° C. 105° D. 115° E. 125°

Q19. Two pencils cost the same as three rubbers. One rubber costs 12p. How much do two pencils cost?

A. 18p B. 24p C. 30p D. 36p E. 48p

Q20. A cube has edges of 7 cm. What is its volume?

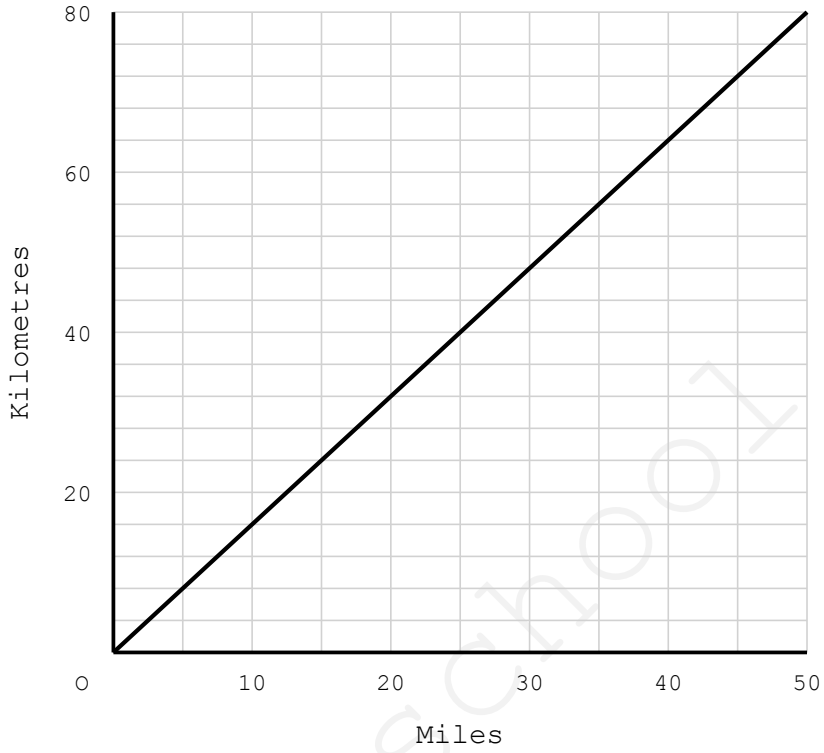
A. 21 cm^3 B. 49 cm^3 C. 147 cm^3 D. 294 cm^3 E. 343 cm^3

Q21. An apple costs a pence and a pear costs p pence. Which expression gives the cost of 3 apples and 2 pears?

A. 3a + 2p B. 2a + 3p C. 5ap D. 6ap E. 3a − 2p

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Q22. Use the miles to kilometres graph. A race is 10 miles long. How far is that in kilometres?



A. 12 km B. 14 km C. 16 km D. 18 km E. 20 km

Q23. A plank is 2.4 m long. A piece 85 cm long is sawn off. How long is the piece that is left, in centimetres?

A. 55 cm B. 145 cm C. 155 cm D. 165 cm E. 239 cm

Q24. A train travels at a steady 96 km/h for 20 minutes. How far does it travel?

A. 24 km B. 28 km C. 32 km D. 36 km E. 48 km

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Q25. A meeting runs from 11:25 to 14:10. How long is it?

A. 2 hours 35 minutes

B. 2 hours 45 minutes

C. 2 hours 55 minutes

D. 3 hours 15 minutes

E. 3 hours 45 minutes

Q26. How many times larger is the value of the 4 in 4,700 than the value of the 4 in 470?

A. They are the same

B. 4 times

C. 10 times

D. 100 times

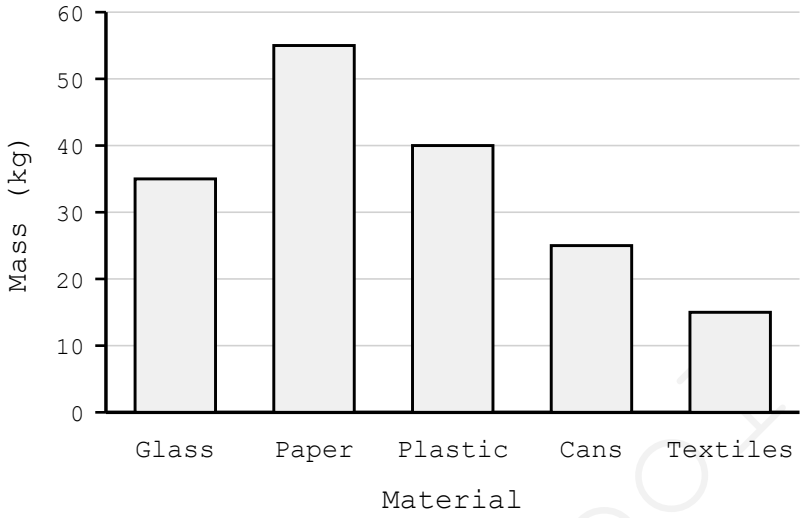
E. 1,000 times

Q27. In a car park the ratio of red cars to blue cars is 2 : 5. There are 63 red and blue cars altogether. How many are blue?

A. 18 B. 27 C. 35 D. 45 E. 50

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Q28. Use the bar chart. Which two materials together weigh the same as the paper?



A. Glass and cans

B. Glass and textiles

C. Plastic and textiles

D. Plastic and cans

E. Cans and textiles

Q29. Five pupils each ate part of a chocolate bar. Who ate the most?

A. Amy, who ate 1/4

B. Ben, who ate 20%

C. Cara, who ate 0.3

D. Dan, who ate 1/8

E. Eve, who ate 0.28

Q30. What number comes next in this sequence?

7, 2, −3, −8, ?

A. −18 B. −13 C. −11 D. −3 E. 3

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Q31. A concert hall has 38 rows with 52 seats in each row. Roughly how many seats is that?

A. 1,500 B. 1,800 C. 2,000 D. 2,400 E. 2,500

Q32. Two runners start together on a track. One completes a lap every 4 minutes and the other every 5 minutes. After how many minutes will they next be at the start line together?

A. 9 B. 10 C. 20 D. 40 E. 45

Q33. Which of these is the quickest way to work out 24 × 25?

A. 24 × 100 ÷ 4

B. 24 × 20 + 5

C. 24 × 5 × 5 × 5

D. 25 × 20 + 4

E. 24 + 25 × 2

Q34. The interior angles of a polygon add up to 900°. How many sides does it have?

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

Q35. A pupil has six 45 minute lessons and one 20 minute break. How long is this altogether?

A. 4 hours 10 minutes

B. 4 hours 30 minutes

C. 4 hours 50 minutes

D. 5 hours

E. 5 hours 20 minutes

Q36. What is the mean of −11, −4, 0 and 3?

A. −6 B. −4 C. −3 D. −2 E. 3

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Q37. What is the sum of all the whole numbers from 1 to 10?

A. 45 B. 50 C. 55 D. 60 E. 110

Q38. The mean of six numbers is 9. Two of the numbers, 3 and 15, are taken away. What is the mean of the four numbers that are left?

A. 7 B. 7.5 C. 8 D. 9 E. 10

Q39. The points (1, 2), (4, 2) and (4, 6) are three corners of a rectangle. What is the perimeter of the rectangle?

A. 7 units B. 12 units C. 14 units D. 20 units E. 24 units

Q40. A lawn measures 12 m by 7 m and contains a pond measuring 2 m by 3 m. Turf for the rest of the lawn costs £6 per square metre. What is the cost of the turf?

A. £432 B. £450 C. £468 D. £486 E. £504

Q41. £4,500 is shared between Amy, Ben and Cara in the ratio 2 : 3 : 4. How much does Cara receive?

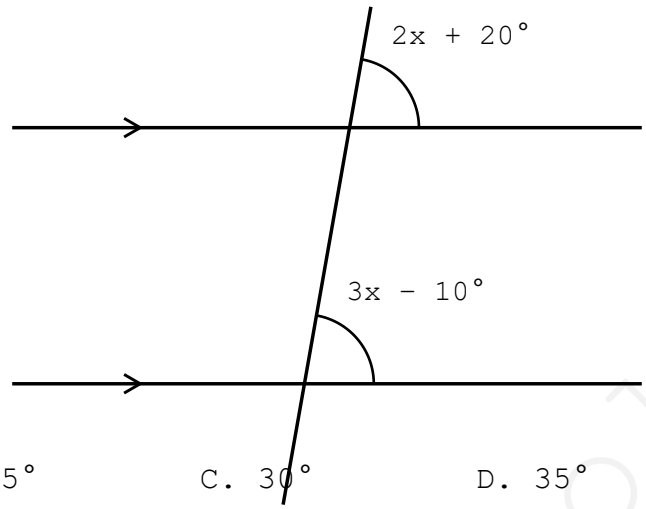
A. £500 B. £1,000 C. £1,500 D. £2,000 E. £2,500

Q42. A driver travels 60 km at 60 km/h and then a further 60 km at 30 km/h. What is the average speed for the whole journey?

A. 35 km/h B. 40 km/h C. 45 km/h D. 50 km/h E. 90 km/h

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Q43. The two horizontal lines are parallel. Work out the value of x.



A. 20° B. 25° C. 30° D. 35° E. 40°

Q44. Sara has 3 times as many stickers as Tom. If Sara gives Tom 10 stickers they will have the same number each. How many stickers did Sara start with?

A. 10 B. 20 C. 30 D. 40 E. 60

Q45. What is the largest number that can be made using each of the digits 4, 0, 7, 2 and 9 once?

A. 92,740 B. 94,720 C. 97,240 D. 97,402 E. 97,420

Q46. A number is decreased by 40% to give 54. What was the number?

A. 75 B. 81 C. 86.4 D. 90 E. 135

Q47. What is 3 to the power of 4?

A. 12 B. 27 C. 64 D. 81 E. 243

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Q48. A rectangle has an area of 150 cm² and a length of 15 cm. What is its perimeter?

A. 25 cm B. 30 cm C. 40 cm D. 50 cm E. 60 cm

Q49. Use the journey plan. Which single stage takes the longest?

Stage	Departs	Arrives
Walk to station	08:47	09:02
Train to Crewe	09:12	10:05
Train to Chester	10:25	10:58

A. Walk to station

B. Train to Crewe

C. Train to Chester

D. The two train stages are equal

E. All three are equal

Q50. A tap fills a 45 litre water butt at a rate of 250 ml every second. How long does it take to fill?

A. 18 seconds

B. 1 minute 30 seconds

C. 3 minutes

D. 18 minutes

E. 30 minutes

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