

Maths Mock Test Paper 5

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. What is the difference in value between the two 8s in the number 84,082?

- A. 80,080 B. 79,020 C. 80,000 D. 79,920 E. 80

Q2. What is 14:30 written using the 12-hour clock?

- A. 1:30 am B. 2:30 am C. 1:30 pm D. 2:30 pm E. 4:30 pm

Q3. A sprinter runs 100 m in 20 seconds. What is the average speed?

- A. 2 m/s B. 4 m/s C. 5 m/s D. 10 m/s E. 20 m/s

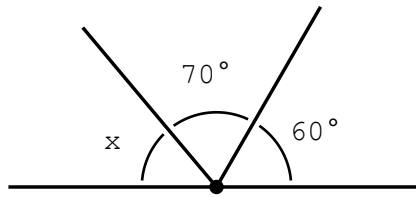
Q4. What is 12×4 ?

- A. 36 B. 44 C. 48 D. 52 E. 56

Q5. Which of these numbers is the largest?

- A. -20 B. -10 C. -7 D. -4 E. -1

Q6. Work out the size of angle x on this straight line.



- A. 50° B. 60° C. 70° D. 110° E. 120°

Q7. On a farm the ratio of cats to dogs is 5 : 2. There are 10 cats. How many dogs are there?

- A. 2 B. 4 C. 5 D. 7 E. 25

Q8. If $x = 10$, what is the value of $x - 6$?

- A. 3 B. 4 C. 5 D. 16 E. 60

Q9. What is 11:20 pm on a 24-hour clock?

- A. 11:20 B. 13:20 C. 21:20 D. 22:20 E. 23:20

Q10. A box holds 12 eggs. How many eggs are there in 7 full boxes?

- A. 19 B. 72 C. 76 D. 84 E. 96

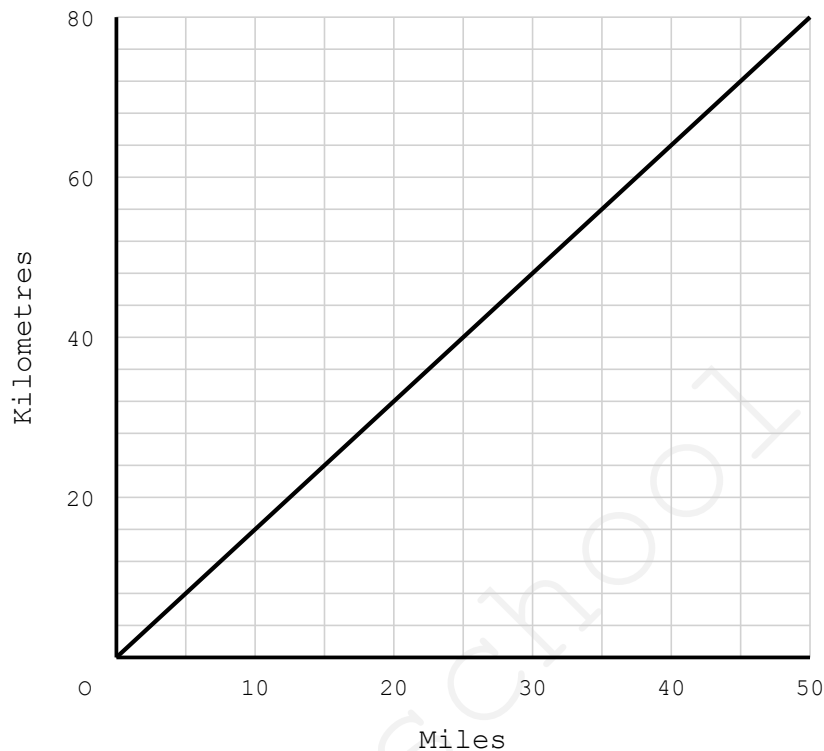
Q11. A sprinter runs 100 m in 12.5 seconds. What is the average speed?

- A. 6 m/s B. 7.5 m/s C. 8 m/s D. 10 m/s E. 12.5 m/s

Q12. Six kilograms of cheese cost £48. How much does 2.5 kg of the same cheese cost?

- A. £16 B. £18 C. £20 D. £24 E. £30

Q13. Use the miles to kilometres graph. How many miles is 32 km?



- A. 15 miles B. 20 miles C. 24 miles D. 28 miles E. 32 miles

Q14. Which is the correct ordering from largest to smallest?

- A. 0.92, 0.29, 0.209
 B. 0.29, 0.92, 0.209
 C. 0.209, 0.29, 0.92
 D. 0.92, 0.209, 0.29
 E. 0.29, 0.209, 0.92

Q15. 5 May is a Sunday. What day of the week is 26 May?

- A. Friday B. Saturday C. Sunday D. Monday E. Tuesday

Q16. Twenty identical sweets weigh 250 g altogether. What is the mass of 8 of these sweets?

- A. 80 g B. 100 g C. 125 g D. 150 g E. 200 g

Q17. Seven trays each hold 18 eggs. Four eggs are broken. How many unbroken eggs are there?

- A. 118 B. 120 C. 122 D. 126 E. 130

Q18. A runner's time is 12.347 seconds. Round this to 2 decimal places.

- A. 12.3 B. 12.34 C. 12.347 D. 12.35 E. 12.4

Q19. A sequence starts at 100 and the rule is "subtract 12". Which is the first term below 40?

- A. 5th term B. 6th term C. 7th term D. 8th term E. 9th term

Q20. How many factors does 100 have?

- A. 7 B. 8 C. 9 D. 10 E. 12

Q21. What do the interior angles of a decagon (10 sides) add up to?

- A. 720° B. 900° C. 1080° D. 1260° E. 1440°

Q22. If $x = 5$, what is the value of $100 \div x + x$?

- A. 15 B. 20 C. 24 D. 25 E. 30

Q23. Three machines make 180 items in an hour. Working at the same rate, how many items would 5 machines make in 2 hours?

- A. 300 B. 450 C. 500 D. 600 E. 900

Q24. 150 g of butter is used to make 12 pieces of shortbread. How much butter is needed for 30 pieces?

- A. 300 g B. 325 g C. 360 g D. 375 g E. 450 g

Q25. The temperature in a laboratory freezer starts at 3°C and falls 6 degrees every hour. What is the temperature after 4 hours?

- A. -27°C B. -21°C C. -18°C D. 21°C E. 27°C

Q26. How many squares apart are the points $(-3, 2)$ and $(5, 2)$?

- A. 2 B. 3 C. 5 D. 8 E. 10

Q27. Write 0.06 as a fraction in its simplest form.

- A. $1/60$ B. $3/50$ C. $6/25$ D. $1/6$ E. $3/5$

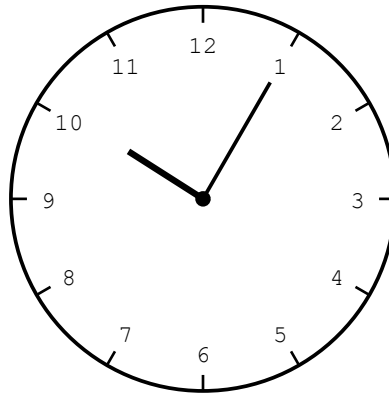
Q28. A square has a perimeter of 32 cm. What is its area?

- A. 16 cm^2 B. 36 cm^2 C. 64 cm^2 D. 128 cm^2 E. 256 cm^2

Q29. Round 45.678 to one decimal place.

- A. 45.6 B. 45.7 C. 45.8 D. 45.67 E. 45.68

Q30. What time is shown on this clock?



- A. 10:01 B. 10:05 C. 1:50 D. 10:25 E. 11:05

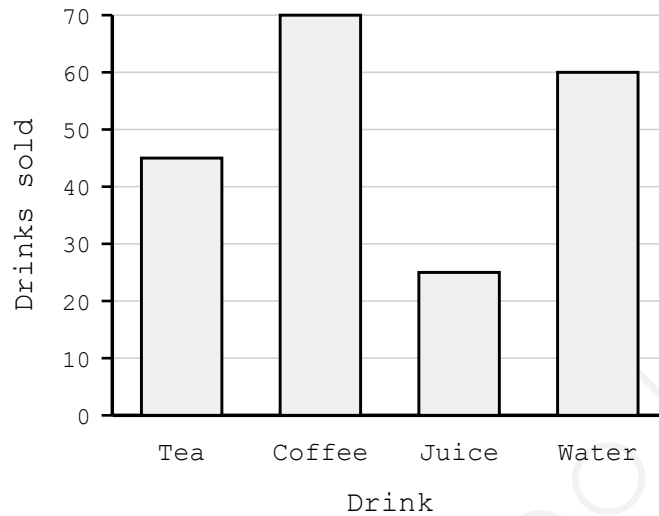
Q31. Ben cycles a route at 15 km/h and it takes him 20 minutes. Amy walks the same route at 5 km/h. How long does Amy take?

- A. 40 minutes
B. 50 minutes
C. 1 hour
D. 1 hour 15 minutes
E. 1 hour 30 minutes

Q32. What is $5 \text{ kg} - 1,750 \text{ g}$, written in kilograms?

- A. 2.25 kg B. 3.25 kg C. 3.5 kg D. 3.75 kg E. 4.25 kg

Q33. Use the bar chart. How many more coffees than teas were sold?



- A. 25 B. 30 C. 35 D. 45 E. 115

Q34. Round 0.00561 to 2 significant figures.

- A. 0.005 B. 0.0056 C. 0.00561 D. 0.0057 E. 0.006

Q35. What is $3,600 \div 100$?

- A. 0.36 B. 3.6 C. 36 D. 360 E. 3,600

Q36. What is 0.048 multiplied by 1,000?

- A. 48 B. 4.8 C. 0.48 D. 480 E. 0.0048

Q37. The sum of four consecutive whole numbers is 90. What is the smallest of the four numbers?

- A. 18 B. 20 C. 21 D. 22 E. 24

Q38. $A : B = 5 : 2$ and $B : C = 6 : 5$. What is $A : B : C$ in its simplest form?

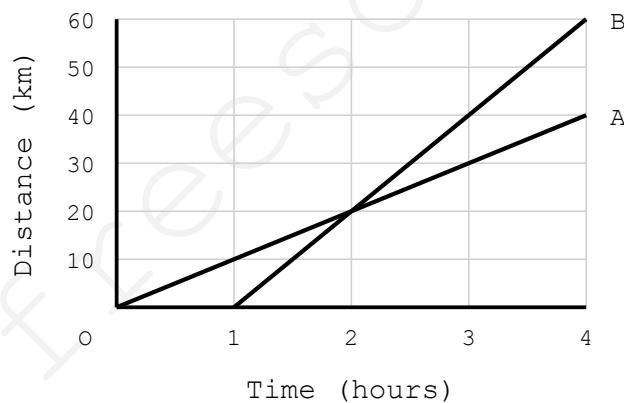
- A. $5 : 2 : 5$
- B. $15 : 6 : 5$
- C. $5 : 6 : 5$
- D. $10 : 4 : 3$
- E. $15 : 2 : 5$

Q39. Solve for x .

$$40 - 3x = 4x + 5$$

- A. 3
- B. 5
- C. 7
- D. 9
- E. 35

Q40. Use the journey graph. What was Ben's speed?



- A. 10 km/h
- B. 15 km/h
- C. 20 km/h
- D. 30 km/h
- E. 60 km/h

Q41. Two numbers have a highest common factor of 8 and a lowest common multiple of 48. One of the numbers is 16. What is the other number?

- A. 6
- B. 12
- C. 24
- D. 32
- E. 40

Q42. A cuboid measures 7 cm by 6 cm by 2 cm. What is its total surface area?

- A. 68 cm^2 B. 84 cm^2 C. 104 cm^2 D. 136 cm^2 E. 272 cm^2

Q43. Sydney is 9 hours ahead of London. A call starts at 08:30 London time. What is the local time in Sydney?

- A. 17:30 B. 23:30 C. 16:30 D. 18:30 E. 19:30

Q44. Estimate $3,847 \div 19$ by rounding each number to 1 significant figure.

- A. 150 B. 175 C. 200 D. 202 E. 210

Q45. A regular polygon has 20 sides. What is the size of each exterior angle?

- A. 9° B. 12° C. 15° D. 18° E. 20°

Q46. A jug holds 1.5 litres of juice. How many 250 ml glasses can be filled from it?

- A. 4 B. 5 C. 6 D. 7 E. 8

Q47. A swimmer covers 1,200 m in 30 minutes. What is the average speed in metres per minute?

- A. 30 B. 40 C. 45 D. 50 E. 60

Q48. What is $(-4) \times (-3) \times (-2)$?

- A. -24 B. -9 C. 9 D. 24 E. 36

Q49. A car travels 468 km in 5 hours 12 minutes. What is its average speed?

- A. 78 km/h B. 85 km/h C. 88 km/h D. 90 km/h E. 94 km/h

Q50. The table shows the goals a team scored in 20 matches. What is the mean number of goals per match?

Goals	Number of matches
0	6
1	8
2	4
3	2

A. 1.1

B. 1.2

C. 1.25

D. 1.5

E. 2