

Maths Mock Test Paper 3

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. Use the bus timetable. How long does Bus A take to travel from Oak Road to Hillside?

Bus stop	Bus A	Bus B	Bus C
Oak Road	08:15	09:05	09:55
Mill Lane	08:24	09:14	10:04
Hillside	08:37	09:27	10:17
Station	08:50	09:40	10:30

- A. 12 minutes
- B. 20 minutes
- C. 22 minutes
- D. 25 minutes
- E. 37 minutes

Q2. A square has sides of 9 cm. What is its perimeter?

- A. 18 cm
- B. 27 cm
- C. 36 cm
- D. 45 cm
- E. 81 cm

Q3. A box is 5 cm long, 3 cm wide and 2 cm high. What is its volume?

- A. 10 cm³
- B. 16 cm³
- C. 30 cm³
- D. 31 cm³
- E. 60 cm³

Q4. A film starts at 3:15 pm and lasts 45 minutes. At what time does it finish?

- A. 3:45 pm B. 3:55 pm C. 4:00 pm D. 4:15 pm E. 4:45 pm

Q5. How many metres are there in 1 kilometre?

- A. 10 B. 100 C. 500 D. 1,000 E. 10,000

Q6. Which calculation gives the same answer as 25×12 ?

- A. $25 \times 10 + 2$
B. $25 \times 10 + 25 \times 2$
C. $25 + 10 \times 2$
D. $25 \times 6 \times 3$
E. $25 \times 12 \times 2$

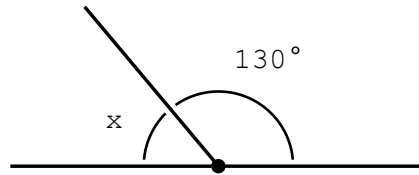
Q7. A journey starts at 06:10 and ends at 07:00. How long does it take?

- A. 40 minutes
B. 50 minutes
C. 1 hour
D. 1 hour 10 minutes
E. 1 hour 50 minutes

Q8. Which statement about the number 17 is true?

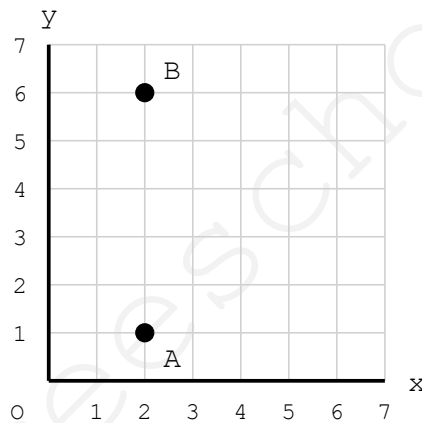
- A. It is a multiple of 7
B. It is a square number
C. It is a prime number
D. It has exactly four factors
E. It is an even number

Q9. Work out the size of angle x on this straight line.



- A. 30° B. 40° C. 50° D. 60° E. 130°

Q10. The grid shows points A and B. How far apart are they, in squares?



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

Q11. Simplify this expression.

$$7c - 2c + 5c$$

- A. $4c$ B. $10c$ C. $12c$ D. $14c$ E. $70c$

Q12. A cyclist must travel 45 km and wants to arrive in no more than 3 hours. What is the lowest average speed that will do this?

- A. 12 km/h B. 15 km/h C. 18 km/h D. 20 km/h E. 25 km/h

Q13. A snail crawls 12 cm every minute. How far does it crawl in half an hour?

- A. 0.36 m B. 1.2 m C. 3.6 m D. 6 m E. 7.2 m

Q14. A washing machine cycle takes 1 hour 55 minutes. It starts at 20:30. What time does it finish?

- A. 21:25 B. 22:05 C. 22:15 D. 22:25 E. 22:35

Q15. A jug holds $\frac{2}{5}$ of a litre of juice. How many millilitres of juice is that?

- A. 25 ml B. 40 ml C. 200 ml D. 400 ml E. 500 ml

Q16. Tiles are laid to make a perfect square with no tiles left over. Which of these numbers of tiles is possible?

- A. 50 B. 60 C. 70 D. 80 E. 100

Q17. The difference between two temperatures is 19 degrees. The lower temperature is -12°C . What is the higher one?

- A. -31°C B. -7°C C. 7°C D. 19°C E. 31°C

Q18. Two whole numbers multiply to make 36 and add to make 13. What are the two numbers?

- A. 1 and 36 B. 2 and 18 C. 3 and 12 D. 4 and 9 E. 6 and 6

Q19. What are the coordinates of the midpoint of the line joining $(-5, 2)$ and $(3, 8)$?

- A. $(-1, 5)$ B. $(1, 5)$ C. $(-1, 4)$ D. $(4, 3)$ E. $(-2, 5)$

Q20. Ravi works out 6×48 by first working out 6×50 and then subtracting. What must he subtract?

- A. 2 B. 6 C. 12 D. 48 E. 300

Q21. What is the missing number in this sequence?

2, 9, ?, 23, 30

- A. 13 B. 14 C. 15 D. 16 E. 17

Q22. A journey starts at 11:35 and takes 55 minutes. What time does it end?

- A. 12:10 B. 12:20 C. 12:25 D. 12:30 E. 12:40

Q23. Write $4 \frac{2}{5}$ as an improper fraction.

- A. $\frac{8}{5}$ B. $\frac{12}{5}$ C. $\frac{22}{5}$ D. $\frac{24}{5}$ E. $\frac{42}{5}$

Q24. A meeting runs from 09:45 to 11:15 and is split into three equal parts. How long is each part?

- A. 25 minutes
B. 30 minutes
C. 35 minutes
D. 45 minutes
E. 50 minutes

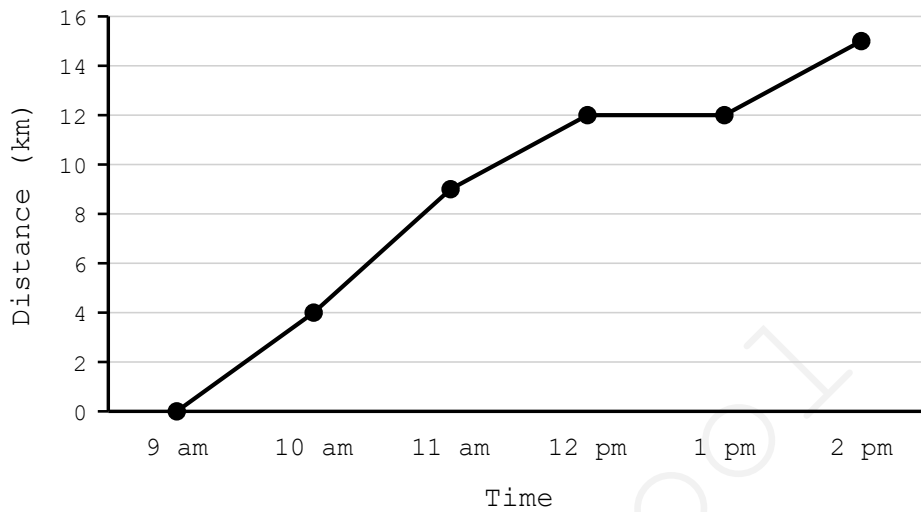
Q25. A journey at a steady 40 km/h takes 4 hours 30 minutes. How long is the journey?

- A. 140 km B. 160 km C. 170 km D. 180 km E. 200 km

Q26. What is the value of $5n - 3$ when $n = 7$?

- A. 21 B. 29 C. 32 D. 35 E. 38

Q27. The line graph shows how far a walker was from home during the morning. How far did the walker travel between 10 am and 12 pm?



- A. 4 km B. 5 km C. 8 km D. 9 km E. 12 km

Q28. A box holds 24 chocolates. Mia eats a quarter of them and her brother eats 6. How many chocolates are left?

- A. 4 B. 6 C. 8 D. 12 E. 14

Q29. Apples cost £1.80 per kilogram. How much do 2.5 kg of apples cost?

- A. £3.60 B. £4.05 C. £4.20 D. £4.50 E. £5.40

Q30. A recipe uses 200 g of flour to make 8 biscuits. How much flour is needed for 20 biscuits?

- A. 320 g B. 400 g C. 450 g D. 500 g E. 600 g

Q31. A rectangle is twice as long as it is wide and its perimeter is 30 cm. How wide is it?

- A. 3 cm B. 5 cm C. 7.5 cm D. 10 cm E. 15 cm

Q32. Which of these calculations gives the smallest answer?

- A. $-5 + 3$ B. $-5 - 3$ C. $2 - 7$ D. $-1 + 4$ E. $-6 + 6$

Q33. Which of these masses is the heaviest?

- A. 3,050 g B. 3.2 kg C. 3,400 g D. 3.45 kg E. 3.5 kg

Q34. Sam says that 25% of 80 is the same as 80% of 25. Is he right?

- A. No, 25% of 80 is larger
B. No, 80% of 25 is larger
C. Yes, both come to 20
D. Yes, both come to 25
E. Yes, both come to 32

Q35. Which number in this list is a prime number?

- A. 77 B. 81 C. 83 D. 87 E. 91

Q36. Half of a number is 36. What is three quarters of that number?

- A. 18 B. 27 C. 48 D. 54 E. 72

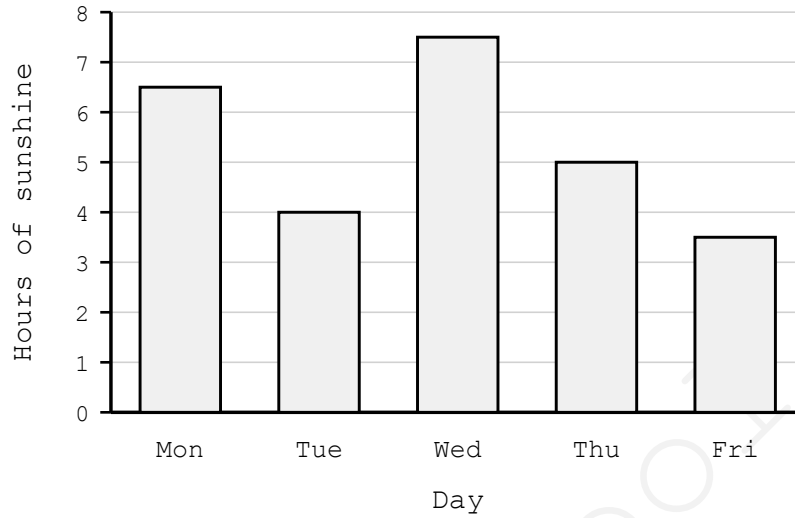
Q37. A number is rounded to 2 significant figures and gives 0.047. What is the LARGEST value the number could be?

- A. 0.0470 B. 0.0474 C. 0.0475 D. 0.0476 E. 0.0480

Q38. A number between 30 and 40 has exactly two different prime factors, which are 2 and 3. What is the number?

- A. 31 B. 33 C. 35 D. 36 E. 38

Q39. Use the bar chart. What is the mean number of hours of sunshine per day?



- A. 4.8 B. 5 C. 5.1 D. 5.2 E. 5.3

Q40. In this sequence each term is the sum of the two before it. What comes next?

3, 5, 8, 13, 21, ?

- A. 26 B. 29 C. 31 D. 34 E. 42

Q41. Increase £180 by 45%.

- A. £234 B. £250 C. £255 D. £261 E. £270

Q42. A number rounds to 4.6 when it is rounded to 1 decimal place. What is the smallest it could be?

- A. 4.5 B. 4.54 C. 4.55 D. 4.56 E. 4.65

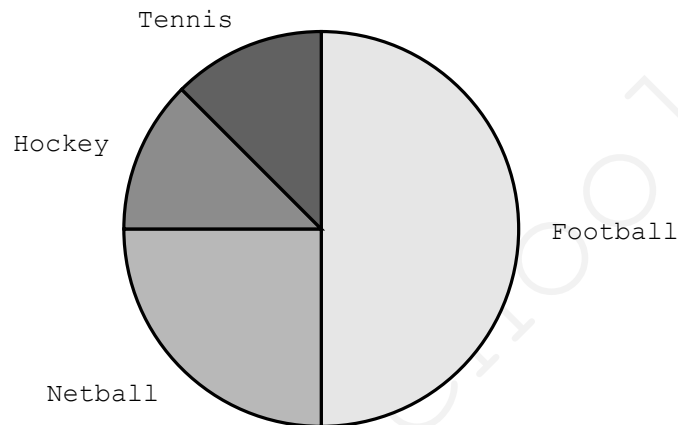
Q43. Tim has £4.35 made up of 30 coins, all of which are 20p or 5p coins. How many 20p coins does he have?

- A. 11 B. 15 C. 17 D. 19 E. 21

Q44. A diver is 18 metres below sea level. She rises 7 metres, then descends 4 metres. How far below sea level is she now?

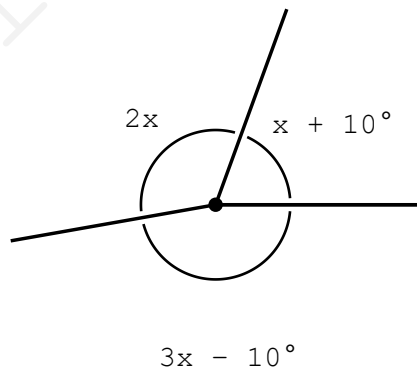
- A. 11 metres B. 15 metres C. 21 metres D. 25 metres E. 29 metres

Q45. 24 pupils each chose one sport. The pie chart shows their choices. How many more pupils chose netball than hockey?



- A. 2 B. 3 C. 4 D. 6 E. 9

Q46. Work out the value of x .



- A. 30° B. 40° C. 45° D. 50° E. 60°

Q47. Two towns are 90 km apart. A car leaves the first town at 10:00 and drives at a steady 60 km/h. At what time is it halfway?

- A. 10:30 B. 10:45 C. 11:00 D. 11:30 E. 11:45

Q48. Which of these calculations has the greatest value?

- A. $-3 \times (-5)$ B. $-20 + 4$ C. $-36 \div 3$ D. $7 - 20$ E. -2×9

Q49. An alloy weighing 5 kg contains copper and tin in the ratio 7 : 3. How much tin must be added so that the ratio becomes 7 : 5?

- A. 0.5 kg B. 1 kg C. 1.5 kg D. 2 kg E. 2.5 kg

Q50. A shop sells apples at 3 for £1.20 and pears at 4 for £2. Anya buys 6 apples and 6 pears. How much does she spend?

- A. £3.20 B. £4.40 C. £5.40 D. £6.40 E. £7.20