Maths Mock Test Paper 2

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 2 cubed?

A. 5 B. 6 C. 8 D. 9 E. 16

Q2. Which decimal is equal to 3/10?

A. 0.003 B. 0.03 C. 0.13 D. 0.3 E. 3.0

Q3. What is the range of this set of numbers?

8, 19, 3, 14, 11

A. 8 B. 11 C. 14 D. 16 E. 19

Q4. Which number is 3 less than −2?

A. −6 B. −5 C. −1 D. 1 E. 5

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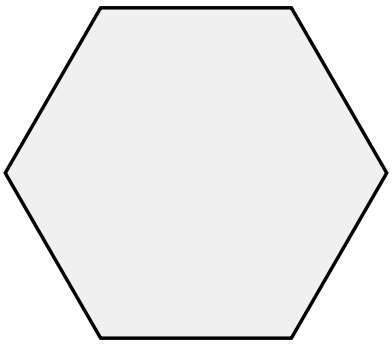
Q5. How many lines of symmetry does this regular hexagon have?



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

Q6. Which month has fewer than 30 days?

A. February B. April C. June D. September E. November

Q7. A cuboid measures 8 cm by 3 cm by 2 cm. What is its volume?

A. 13 cm^3 B. 24 cm^3 C. 26 cm^3 D. 48 cm^3 E. 96 cm^3

Q8. How many complete hundreds are there in 45,000?

A. 45 B. 450 C. 4,500 D. 4 E. 45,000

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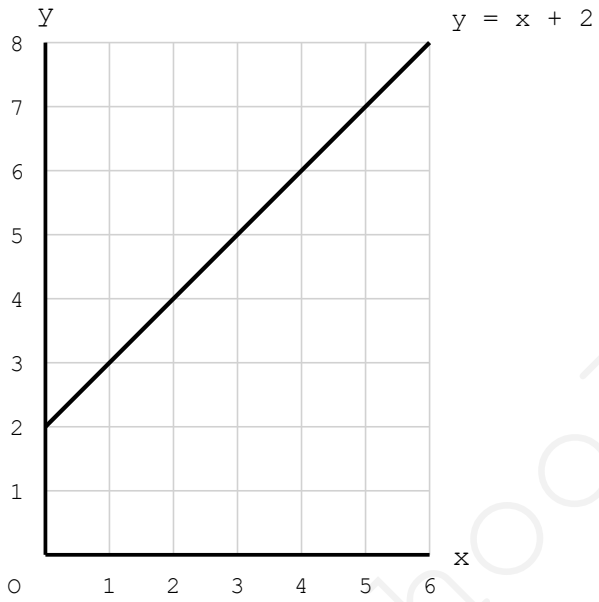
Q9. The straight line is drawn on the grid. When x = 3, what is the value of y?



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

Q10. A bus travels at a steady 40 km/h for 30 minutes. How far does it go?

A. 10 km B. 20 km C. 30 km D. 40 km E. 80 km

Q11. 144 divided by what number gives 9?

A. 12 B. 14 C. 16 D. 18 E. 24

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Q12. The table shows the goals scored by a team in each match. What is the mode number of goals?

Goals	Number of matches
0	4
1	7
2	5
3	3
4	1

A. 1 B. 2 C. 3 D. 4 E. 7

Q13. A film is 98.7 minutes long. Round this to the nearest 10 minutes.

A. 90 B. 98 C. 99 D. 100 E. 110

Q14. A runner covers 1500 m in 5 minutes. What is the average speed in metres per second?

A. 3 m/s B. 4 m/s C. 5 m/s D. 6 m/s E. 300 m/s

Q15. Which digit is in the hundredths place in 3.487?

A. 3 B. 4 C. 8 D. 7 E. 0

Q16. Which of these numbers between 40 and 50 is a prime number?

A. 42 B. 44 C. 45 D. 47 E. 48

Q17. A sequence begins 3, 11, 19, 27, ... What is the 15th term?

A. 107 B. 112 C. 115 D. 120 E. 123

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Q18. Five cities recorded these temperatures: 3°C, −7°C, −2°C, 0°C and −11°C. What is the range of the temperatures?

A. 8 B. 11 C. 13 D. 14 E. 17

Q19. Look at the calendar. Book club meets on the first and third Thursday. What are the two dates?

Mon	Tue	Wed	Thu	Fri	Sat	Sun
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

A. 1 and 8 B. 1 and 15 C. 8 and 22 D. 1 and 22 E. 8 and 15

Q20. Which number equals 7 tenths plus 5 hundredths?

A. 0.75 B. 0.57 C. 0.705 D. 7.5 E. 0.075

Q21. A 2 litre bottle of juice is poured into glasses holding 250 ml each. How many glasses can be filled?

A. 4 B. 6 C. 8 D. 10 E. 12

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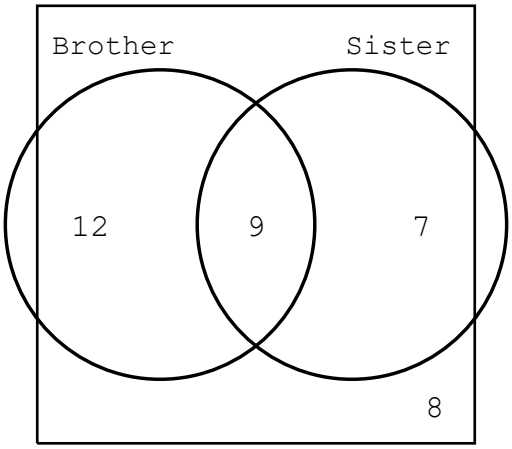
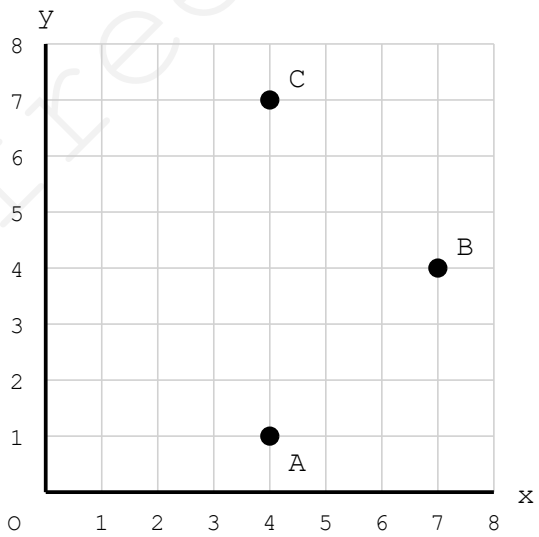
Q22. Use the Venn diagram. What fraction of the pupils have neither a brother nor a sister?



A. 1/6 B. 2/9 C. 1/4 D. 5/18 E. 1/3

Q23. Three corners of a square are marked, and the square stands on one of its corners. What are the coordinates of the missing fourth corner?



A. (1, 1) B. (0, 4) C. (1, 7) D. (4, 4) E. (1, 4)

Q24. Which of these has the greatest value?

A. 11/20 B. 0.6 C. 0.61 D. 62% E. 5/8

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Q25. What is 348 + 199?

A. 537 B. 542 C. 547 D. 557 E. 647

Q26. A number is rounded to the nearest 10 and gives 350. Which of these CANNOT be the original number?

A. 345 B. 349 C. 350 D. 354 E. 355

Q27. A tap fills 12 litres in 4 minutes. How many litres does it fill each minute?

A. 2 B. 3 C. 4 D. 6 E. 8

Q28. What is the size of each exterior angle of a regular pentagon?

A. 36° B. 60° C. 72° D. 108° E. 120°

Q29. What is 12 squared?

A. 24 B. 121 C. 132 D. 144 E. 156

Q30. £1 is worth €1.15. How many euros would you get for £40?

A. €34.78 B. €41.15 C. €44 D. €46 E. €48

Q31. At 8 pm the temperature was 2°C and it fell 3 degrees every 2 hours. What was the temperature at 2 am?

A. −9°C B. −7°C C. −4°C D. −1°C E. 7°C

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Q32. A journey starts at 08:47 and ends at 11:12. How long does it take?

A. 2 hours 5 minutes

B. 2 hours 25 minutes

C. 2 hours 35 minutes

D. 3 hours 25 minutes

E. 3 hours 35 minutes

Q33. A gym charges £20 to join plus £8 for each month. Which expression gives the cost in pounds for m months?

A. 20 + 8m B. 8 + 20m C. 28m D. 20m + 8m E. 160m

Q34. Buses run every 25 minutes. One leaves at 13:40. What time does the next one but one leave?

A. 14:05 B. 14:20 C. 14:30 D. 14:35 E. 14:55

Q35. How many square tiles of side 50 cm are needed to cover a floor measuring 4 m by 3 m?

A. 12 B. 24 C. 36 D. 48 E. 60

Q36. The four numbers 4, 7, x and 10 have a mean of 8. What is the value of x?

A. 9 B. 11 C. 12 D. 13 E. 15

Q37. Round 7.0049 to 3 significant figures.

A. 7.00 B. 7.004 C. 7.005 D. 7.01 E. 7.1

Q38. What is 3,450 multiplied by 100?

A. 345,000 B. 34,500 C. 3,450,000 D. 345,00 E. 3,4500

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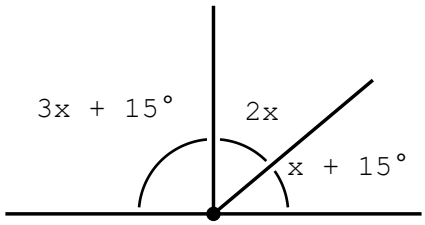
Q39. Work out the value of x.



A. 20° B. 25° C. 30° D. 35° E. 40°

Q40. Adult tickets cost £8 and child tickets cost £5. A group buys 12 tickets for £81. How many adult tickets are there?

A. 5 B. 6 C. 7 D. 8 E. 9

Q41. Which of these is closest to 2/3?

A. 7/11 B. 65% C. 0.66 D. 0.667 E. 0.68

Q42. Two similar rectangles have sides in the ratio 2 : 5. The area of the smaller rectangle is 12 cm². What is the area of the larger rectangle?

A. 30 cm² B. 48 cm² C. 60 cm² D. 75 cm² E. 300 cm²

Q43. A square has sides of 6 cm. If every side is doubled in length, how many times bigger is the area?

A. 2 times B. 3 times C. 4 times D. 6 times E. 8 times

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Q44. One litre of paint covers 12 m² of wall. How much paint is needed to cover 54 m²?

A. 4 litres

B. 4.5 litres

C. 5 litres

D. 5.5 litres

E. 6 litres

Q45. At 6 am the temperature was −5°C. It rose by 2 degrees every hour. At what time did it reach 3°C?

A. 8 am B. 9 am C. 10 am D. 11 am E. 12 noon

Q46. What is 144 ÷ 6 − 12?

A. 8 B. 10 C. 12 D. 14 E. 18

Q47. Use the train timetable. How long does train Y take from Gatwick to Brighton?

Station	X	Y	Z
London	09:07	10:22	11:37
Gatwick	09:42	10:57	12:12
Haywards Heath	10:01	11:16	12:31
Brighton	10:23	11:38	12:53

A. 41 minutes

B. 31 minutes

C. 36 minutes

D. 46 minutes

E. 51 minutes

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Q48. Solve for x.

$$3(x - 4) = 2(x + 1)$$

A. 6 B. 10 C. 12 D. 14 E. 16

Q49. A cheetah can run at 30 m/s. How far could it run at this speed in 2 minutes?

A. 600 m B. 1800 m C. 3600 m D. 6000 m E. 7200 m

Q50. Solve for x.

$$3x = -21$$

A. −63 B. −18 C. −7 D. 7 E. 18

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