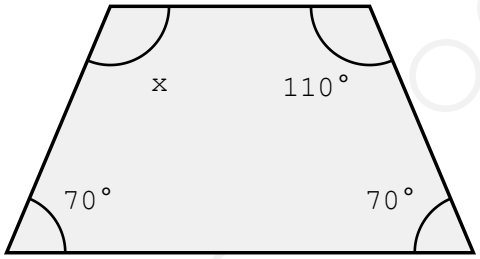
Maths Mock Test Paper 8

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. Work out the size of angle x in this quadrilateral.



A. 70° B. 90° C. 100° D. 110° E. 120°

Q2. What is the mean of these four numbers?

7, 3, 8, 6

A. 5 B. 6 C. 7 D. 8 E. 24

Q3. A shopping bill comes to £13.60. How much change is there from £20?

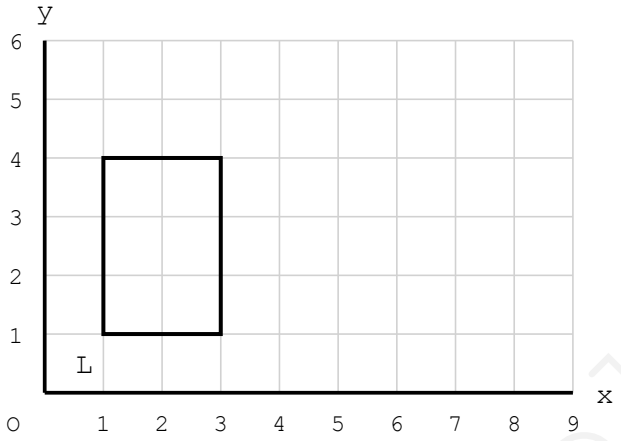
A. £6.40 B. £6.60 C. £7.40 D. £7.60 E. £13.40

Q4. What is 100 ÷ 4?

A. 20 B. 24 C. 25 D. 30 E. 40

myfreeschool

Q5. The shape is translated so that corner L moves from (1, 1) to (5, 1). Which description fits the move?



A. 4 squares right, 0 up

B. 4 squares up, 0 right

C. 5 squares right, 1 up

D. 1 square right, 4 up

E. 4 squares left, 0 up

Q6. Solve for x.

$$x + 12 = 12$$

A. 0 B. 1 C. 12 D. 24 E. 144

Q7. Which multiple of 10 is 47 closest to?

A. 30 B. 40 C. 50 D. 60 E. 70

Q8. Convert 35 mm to centimetres.

A. 0.35 cm B. 3.5 cm C. 35 cm D. 350 cm E. 3,500 cm

Q9. A car travels 60 km in one hour at a steady speed. How far does it travel in 3 hours?

A. 20 km B. 63 km C. 120 km D. 180 km E. 240 km

myfreeschool

Q10. A rectangle has a length of 12 cm and a perimeter of 34 cm. What is its width?

A. 4 cm B. 5 cm C. 6 cm D. 10 cm E. 22 cm

Q11. What is 0.6 ÷ 0.2?

A. 0.12 B. 0.3 C. 3 D. 12 E. 30

Q12. Convert 3.45 km to metres.

A. 34.5 m B. 345 m C. 3,045 m D. 3,450 m E. 34,500 m

Q13. 120 counters are shared in the ratio 1 : 3 : 4. How many counters are in the largest share?

A. 15 B. 30 C. 45 D. 60 E. 75

Q14. Three times a number minus 8 equals 22. What is the number?

A. 6 B. 8 C. 10 D. 14 E. 30

Q15. Four decorators can paper 6 rooms in a day. Working at the same rate, how many rooms could 10 decorators paper in a day?

A. 10 B. 12 C. 15 D. 18 E. 24

Q16. Which of these calculations has the answer −9?

A. −4 − 5 B. −12 + 5 C. 5 − 13 D. −3 − 7 E. 2 − 13

Q17. Which of these numbers rounds to 3,000 when rounded to 1 significant figure?

A. 2,499 B. 2,543 C. 3,500 D. 3,501 E. 4,000

myfreeschool

Q18. What is the sum of the first four square numbers?

A. 20 B. 25 C. 30 D. 36 E. 55

Q19. What is the difference between the perimeter of a rectangle measuring 9 cm by 4 cm and the perimeter of a square of side 6 cm?

A. 0 cm B. 2 cm C. 4 cm D. 6 cm E. 10 cm

Q20. What is the lowest common multiple (LCM) of 6 and 10?

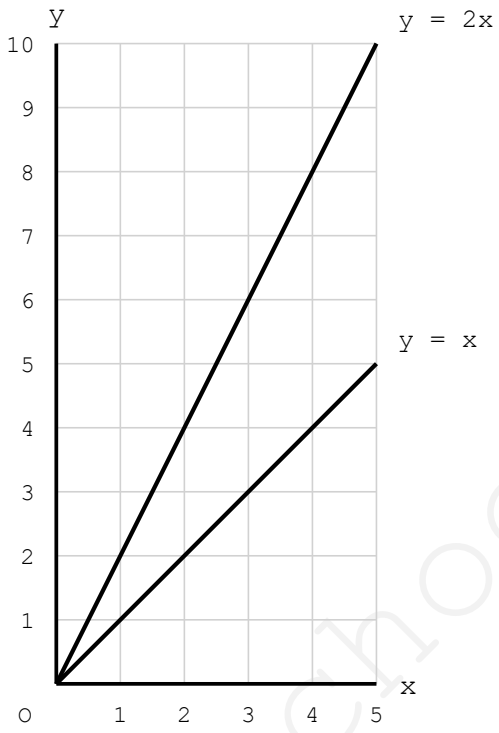
A. 2 B. 16 C. 30 D. 60 E. 90

Q21. How much smaller is −13 than −7?

A. 4 B. 5 C. 6 D. 7 E. 20

myfreeschool

Q22. Which line drawn on the grid is the steeper one?



A. y = 2x, because y goes up 2 for every 1 across

B. y = x, because it is longer

C. y = x, because it passes through the origin

D. They are equally steep

E. y = 2x, because it starts higher up

Q23. Practice sessions are 40 minutes long with a 5 minute break between them. The first starts at 09:00. What time does the third session end?

A. 11:00 B. 11:10 C. 11:20 D. 11:30 E. 12:00

Q24. If p = 4, what is the value of $p^2 + 3$?

A. 11 B. 14 C. 15 D. 19 E. 22

myfreeschool

Q25. Use the two-way table. What fraction of all the pupils own no pet?

Pupils	Dog	Cat	No pet
Year 5	11	9	5
Year 6	13	7	5

A. 1/25 B. 1/10 C. 1/8 D. 1/6 E. 1/5

Q26. A coach travels at a steady 54 km/h for 1 hour 40 minutes. How far does it go?

A. 72 km B. 81 km C. 90 km D. 95 km E. 108 km

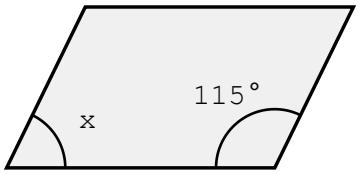
Q27. A car travels 60 miles in one hour. How far does it travel in 2.5 hours at the same speed?

A. 120 miles B. 135 miles C. 150 miles D. 165 miles E. 180 miles

Q28. Five gardeners cut a large lawn in 12 hours. How long would 10 gardeners take, working at the same rate?

A. 4 hours B. 6 hours C. 7 hours D. 8 hours E. 24 hours

Q29. Work out the size of angle x in this parallelogram.



A. 55° B. 65° C. 75° D. 105° E. 115°

Q30. A square has an area of 169 cm². How long is each side?

A. 11 cm B. 12 cm C. 13 cm D. 14 cm E. 17 cm

myfreeschool

Q31. What is 2/5 of 350?

A. 70 B. 105 C. 140 D. 175 E. 210

Q32. Tom has £30. He spends one third of it on a shirt and then spends £6 on lunch. How much money does he have left?

A. £10 B. £14 C. £16 D. £20 E. £24

Q33. A price is £12.356. Round this to the nearest penny (2 decimal places).

A. £12.35 B. £12.356 C. £12.36 D. £12.4 E. £13.00

Q34. Use the digits 3, 0, 8, 5, and 2 exactly once each to make the smallest possible 5-digit number. What is the value of the hundreds digit in your new number?

A. 5 B. 8 C. 3 D. 0 E. 2

Q35. A car travels 210 km in 3 hours. What is its average speed?

A. 60 km/h B. 63 km/h C. 70 km/h D. 75 km/h E. 630 km/h

Q36. Which of these lines does NOT pass through the origin?

A. $y = 5x$

B. $y = x$

C. $y = 5x + 2$

D. $y = -3x$

E. $y = 0.5x$

Q37. Which number has the digit 8 in the hundredths place?

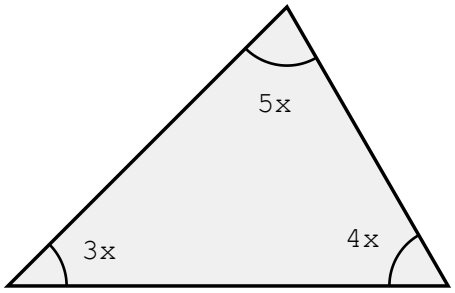
A. 4.086 B. 4.806 C. 4.680 D. 4.068 E. 4.608

myfreeschool

Q38. The nth term of a sequence is 9n − 4. Which term is equal to 77?

A. 7th term B. 8th term C. 9th term D. 10th term E. 11th term

Q39. Work out the size of the largest angle in this triangle.



A. 45° B. 60° C. 75° D. 90° E. 105°

Q40. Trains leave every 35 minutes, the first at 05:50. What time does the fifth train leave?

A. 07:45 B. 08:00 C. 08:10 D. 08:25 E. 08:45

Q41. A straight fence is 24 m long with a post every 3 m, including one at each end. How many posts are there?

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

Q42. A coach leaves at 23:40 and the journey takes 4 hours 55 minutes. At what time does it arrive?

A. 03:35 B. 04:05 C. 04:25 D. 04:35 E. 05:05

Q43. A cube has a volume of 512 cm^3. What is its total surface area?

A. 64 cm^2 B. 128 cm^2 C. 256 cm^2 D. 384 cm^2 E. 3,072 cm^2

myfreeschool

Q44. A number is multiplied by −3 and then 8 is added, giving −13. What is the number?

A. −7 B. −5 C. 5 D. 7 E. 21

Q45. £924 is shared between three people in the ratio 3 : 4 : 5. How much does the person with the middle share receive?

A. £77 B. £231 C. £308 D. £385 E. £462

Q46. A number between 20 and 40 leaves a remainder of 1 when divided by 4 and a remainder of 2 when divided by 5. What is the number?

A. 22 B. 27 C. 32 D. 33 E. 37

Q47. Which of these five numbers is the smallest?

A. 7/10 B. 0.705 C. 0.71 D. 71.5% E. 5/7

Q48. A number is rounded to 3 significant figures to give 4.50. Which of these CANNOT be the original number?

A. 4.495 B. 4.498 C. 4.501 D. 4.504 E. 4.505

Q49. What is half of 3,600?

A. 1,600 B. 1,700 C. 1,800 D. 1,900 E. 2,000

Q50. How many prime numbers are there between 50 and 70?

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

myfreeschool