Maths Mock Test Paper 6

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. Five tins of paint cover a wall of 20 m². How many tins are needed to cover 32 m²?

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

Q2. Tom buys a book for £4.50 and a pen for £1.20. How much change does he get from £10?

A. £3.30 B. £4.30 C. £4.70 D. £5.30 E. £5.70

Q3. How many degrees are there in a full turn?

A. 90° B. 180° C. 270° D. 360° E. 450°

Q4. Which of these numbers is a factor of 24?

A. 5 B. 7 C. 8 D. 9 E. 10

Q5. What is the next number in this sequence?

20, 17, 14, 11, ?

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

Q6. What is 1/3 of 27?

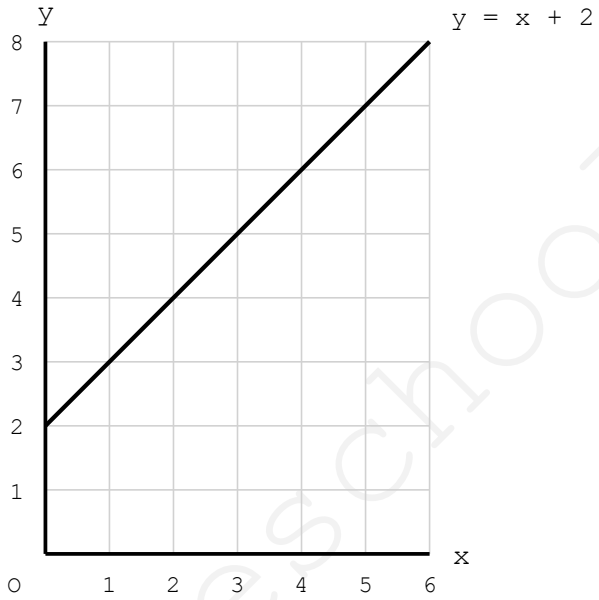
A. 3 B. 6 C. 9 D. 13 E. 81

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Q7. A train travels 240 km in 3 hours. What is its average speed?

A. 60 km/h B. 70 km/h C. 80 km/h D. 90 km/h E. 120 km/h

Q8. Which of these points lies on the line drawn on the grid?



A. (1, 1) B. (2, 5) C. (5, 3) D. (6, 4) E. (4, 6)

Q9. What is 93 − 47?

A. 36 B. 44 C. 46 D. 54 E. 56

Q10. How many minutes are there in one and a half hours?

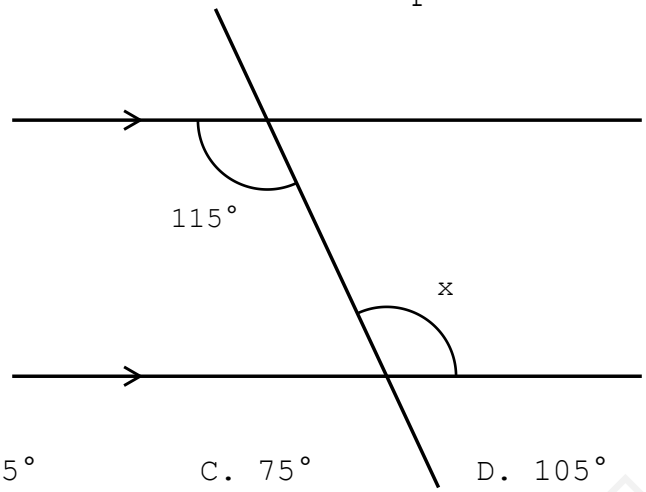
A. 75 B. 80 C. 90 D. 100 E. 150

Q11. A well is 12 m deep and a flagpole beside it is 9 m tall. Taking ground level as 0, what is the difference in height between the top of the flagpole and the bottom of the well?

A. 3 m B. 9 m C. 12 m D. 21 m E. 108 m

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Q12. The two horizontal lines are parallel. Work out the size of angle x.



A. 55° B. 65° C. 75° D. 105° E. 115°

Q13. What is the median of these eight numbers?

12, 7, 9, 15, 11, 6, 14, 10

A. 10.5 B. 11 C. 11.5 D. 12 E. 12.5

Q14. Use the train timetable. How long does train C take from Cwmbran to Hereford?

Station	A	B	C	D
Newport	06:55	07:40	08:25	09:10
Cwmbran	07:08	07:53	08:38	09:23
Hereford	07:52	08:37	09:22	10:07
Shrewsbury	08:35	09:20	10:05	10:50

A. 44 minutes

B. 34 minutes

C. 39 minutes

D. 49 minutes

E. 57 minutes

Q15. What is 18% of 150?

A. 18 B. 24 C. 27 D. 30 E. 36

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Q16. Journey A is 90 km in 1 hour 30 minutes, journey B is 100 km in 2 hours and journey C is 140 km in 2 hours 30 minutes. Which journey has the highest average speed?

A. Journey A

B. Journey B

C. Journey C

D. Journeys A and C are equally fast

E. All three are the same speed

Q17. A taxi charges £3 plus £2 for every mile travelled. Which expression gives the cost in pounds of a journey of m miles?

A. 3 + 2m B. 2 + 3m C. 5m D. 3m + 2m E. 6m

Q18. Where does the line $y = 2x - 3$ cross the y-axis?

A. (0, 2) B. (0, 3) C. (3, 0) D. (0, −3) E. (−3, 0)

Q19. A rectangle has an area of 96 cm^2 and a length of 12 cm. What is its width?

A. 6 cm B. 8 cm C. 9 cm D. 12 cm E. 84 cm

Q20. A car park holds only bicycles and cars. There are 30 vehicles with 100 wheels altogether. How many cars are there?

A. 10 B. 15 C. 20 D. 22 E. 25

Q21. What is 7×12?

A. 72 B. 77 C. 84 D. 96 E. 98

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Q22. Water flows into a tank at 2.5 litres each minute. How much water flows in during a quarter of an hour?

A. 10 litres

B. 25 litres

C. 30 litres

D. 37.5 litres

E. 150 litres

Q23. What is the square root of 400?

A. 16 B. 20 C. 40 D. 80 E. 200

Q24. Which point is the same distance from the origin as the point (0, 6)?

A. (6, 6) B. (−6, 0) C. (3, 3) D. (0, 3) E. (6, −6)

Q25. A cake mixture uses flour, butter and sugar in the ratio 6 : 4 : 3. If 900 g of flour is used, how much sugar is needed?

A. 300 g B. 400 g C. 450 g D. 600 g E. 675 g

Q26. A pattern of dots grows like this: 4, 7, 10, 13, ... How many dots are in the 20th pattern?

A. 58 B. 60 C. 61 D. 63 E. 64

Q27. Which number is 100 times smaller than 4,300?

A. 43 B. 430 C. 4.3 D. 0.43 E. 4300

Q28. A rectangular field measures 10 m by 6 m. A rectangular pond 4 m by 3 m is dug in it. What area of field is left?

A. 12 m² B. 36 m² C. 48 m² D. 54 m² E. 60 m²

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Q29. Which number is 9 less than −4?

A. −13 B. −5 C. 5 D. 13 E. 36

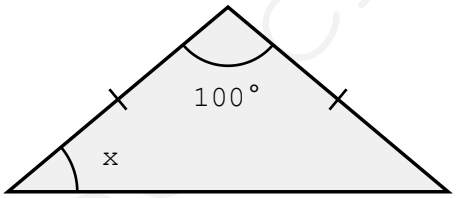
Q30. A fair coin is flipped and a fair six-sided dice is rolled. What is the probability of getting a head and a 6?

A. 1/36 B. 1/12 C. 1/8 D. 1/6 E. 1/2

Q31. What is 2/3 of 3/4?

A. 1/4 B. 5/12 C. 1/2 D. 6/7 E. 8/9

Q32. The two dashed sides of this triangle are equal. Work out the size of angle x.



A. 30° B. 40° C. 50° D. 60° E. 80°

Q33. A driver travels for 3 hours at a steady 80 km/h and then for 2 hours at a steady 105 km/h. What is the total distance travelled?

A. 370 km B. 410 km C. 430 km D. 450 km E. 480 km

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Q34. Use the ferry timetable. How long does the 08:40 sailing take?

Leaves Harbour	Arrives Island
08:40	10:15
11:05	12:35
14:20	16:00
17:45	19:10

A. 1 hour 5 minutes

B. 1 hour 15 minutes

C. 1 hour 25 minutes

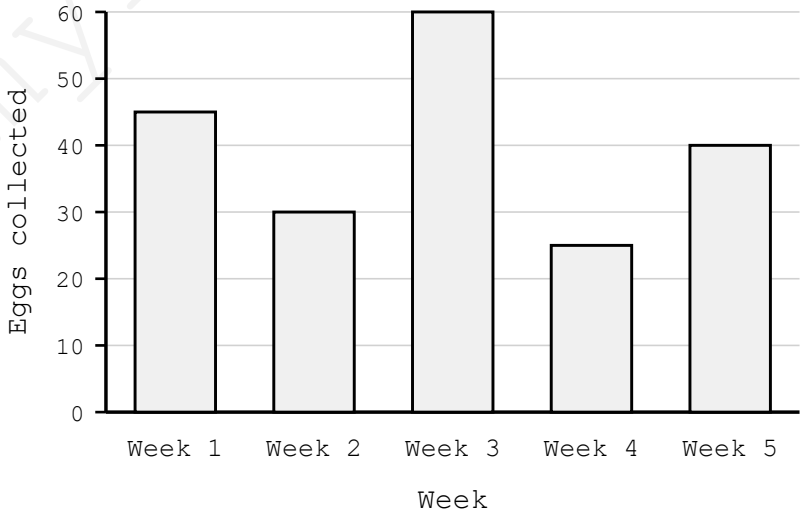
D. 1 hour 30 minutes

E. 1 hour 35 minutes

Q35. Round 4.67 to 1 decimal place.

A. 4.6 B. 4.67 C. 4.7 D. 4.8 E. 5.0

Q36. Use the bar chart. In Week 6 the farm collected 15% more eggs than in Week 5. How many eggs was that?



A. 44 B. 46 C. 48 D. 50 E. 55

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Q37. A runner completes 2400 m in 8 minutes. What is the average speed?

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

Q38. Round 6,381 to 3 significant figures.

A. 6,300 B. 6,380 C. 6,381 D. 6,390 E. 6,400

Q39. A cube has edges of 10 cm. What is its total surface area?

A. 100 cm^2 B. 400 cm^2 C. 600 cm^2 D. 1,000 cm^2 E. 6,000 cm^2

Q40. The points (2, 5), (6, 5) and (6, 1) are three corners of a square. A fourth point is added at (2, 2). Which statement is true?

A. The four points make a square

B. The four points make a rectangle

C. The point should have been (2, 1)

D. The point should have been (1, 2)

E. The four points make a parallelogram

Q41. What is the nth term rule for this sequence?

45, 41, 37, 33

A. 49 − 4n B. 45 − 4n C. 4n + 41 D. 41 − 4n E. 4n − 49

Q42. The angles of a quadrilateral are in the ratio 2 : 3 : 4 : 6. What is the smallest angle?

A. 36° B. 48° C. 72° D. 96° E. 144°

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Q43. The price of a book is increased by 10%, and the new price is then decreased by 20%. What is the overall change in the price?

A. 10% increase

B. 12% increase

C. no change

D. 10% decrease

E. 12% decrease

Q44. A number line has −40 and 24 marked on it. Which number is exactly halfway between them?

A. −16 B. −8 C. −4 D. 8 E. 16

Q45. In a sale everything is reduced by 30%. A bag now costs £42. What was its original price?

A. £54.60 B. £56.00 C. £60.00 D. £63.00 E. £72.00

Q46. 12 litres of orange drink are made from concentrate and water in the ratio 1 : 5. How much extra water must be added so that the ratio becomes 1 : 7?

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

Q47. What is 1,000 − 468?

A. 432 B. 522 C. 532 D. 542 E. 632

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Q48. Look at the calendar. A club meets every 10 days, starting on the 3rd. What is the date of its third meeting?

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	31		

A. 13 B. 20 C. 23 D. 30 E. 31

Q49. In a 7-digit number, the millions digit is 5. If you multiply the number by 10, to what place value does the 5 move?

A. Hundred thousands

B. Ten millions

C. Millions

D. Hundred millions

E. Billions

Q50. A rectangular garden bed measures 1.6 m by 45 cm. What is its perimeter in metres?

A. 2.05 m B. 3.2 m C. 4.1 m D. 4.5 m E. 8.2 m

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