Maths Mock Test Paper 13

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. Anna says that 0.7 is the same as 7/100. Which fraction is 0.7 really equal to?

A. 7/100 B. 1/7 C. 7/1000 D. 3/10 E. 7/10

Q2. At 6 am the temperature was −4°C. By 10 am it had risen by 9 degrees. What was the temperature at 10 am?

A. −13°C B. −5°C C. 4°C D. 5°C E. 13°C

Q3. What number is 100 more than 5,372?

A. 5,472 B. 5,382 C. 6,372 D. 5,3720 E. 5,362

Q4. A point has the same x-coordinate as (3, 8) and the same y-coordinate as (6, 2). What are its coordinates?

A. (8, 6) B. (6, 8) C. (2, 3) D. (3, 6) E. (3, 2)

Q5. There are 30 children in a class and half of them go swimming. How many children go swimming?

A. 10 B. 12 C. 15 D. 18 E. 20

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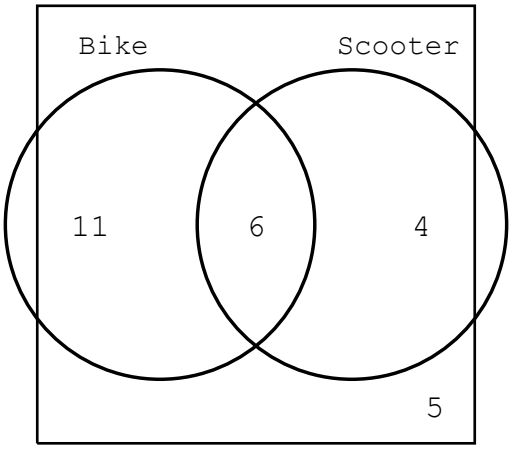
Q6. The Venn diagram shows pupils who own a bike or a scooter. How many own a scooter but not a bike?



A. 4 B. 5 C. 6 D. 10 E. 11

Q7. A town has 4,723 residents. Estimate this to the nearest 1,000.

A. 4,000 B. 4,700 C. 4,723 D. 5,000 E. 6,000

Q8. Which of these is the complete list of the factors of 18?

A. 1, 2, 3, 9, 18

B. 1, 2, 6, 9, 18

C. 1, 3, 6, 18

D. 2, 3, 6, 9

E. 1, 2, 3, 6, 9, 18

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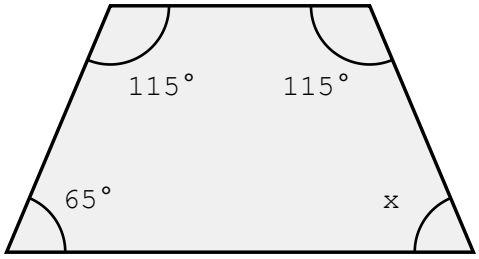
Q9. Work out the size of angle x in this trapezium.



A. 65° B. 75° C. 105° D. 115° E. 125°

Q10. There are 30 pupils in a class and 12 of them are boys. What is the ratio of boys to girls?

A. 3 : 2 B. 2 : 3 C. 2 : 5 D. 5 : 3 E. 1 : 2

Q11. Look at the calendar. The half-term holiday is the whole of the week beginning Monday the 15th. What is the date of the last day of that holiday?

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. 19 B. 20 C. 21 D. 22 E. 25

Q12. One number is 5. Added to a second number it gives a total of −3. What is the second number?

A. 8 B. −8 C. −2 D. 2 E. −15

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Q13. Round 123,456 to 3 significant figures.

A. 123,000 B. 123,400 C. 123,456 D. 123,500 E. 124,000

Q14. How many hundreds are there altogether in 4,500?

A. 5 B. 450 C. 4 D. 40 E. 45

Q15. Use the two-way table of tickets. One of the theatre tickets is chosen at random. What is the probability that it is a child's ticket?

Tickets	Adults	Children
Cinema	36	54
Theatre	28	22

A. 2/5 B. 11/25 C. 1/2 D. 14/25 E. 3/5

Q16. Paint is mixed from white and blue in the ratio 3 : 2. How much blue is needed to make 20 litres of the mixture?

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

Q17. What is the total cost of 24 raffle tickets at 25p each?

A. £4.80 B. £6.00 C. £6.20 D. £5.60 E. £12.00

Q18. What is the nth term rule for this sequence?

5, 8, 11, 14

A. n + 3 B. 3n C. 3n + 2 D. 2n + 3 E. 5n − 3

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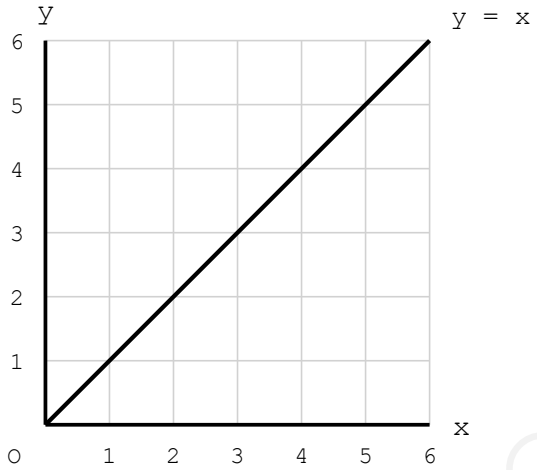
Q19. The line y = x is drawn on the grid. Which of these points lies above it?



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

Q20. Which of these is 3 thousands, 4 tens and 7 hundredths written as a number?

A. 3,400.07 B. 3,040.07 C. 3,040.7 D. 3,047 E. 3,004.07

Q21. Use the train timetable. How long does train A take from Newport to Shrewsbury?

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. 1 hour 10 minutes

B. 1 hour 20 minutes

C. 1 hour 30 minutes

D. 1 hour 35 minutes

E. 1 hour 40 minutes

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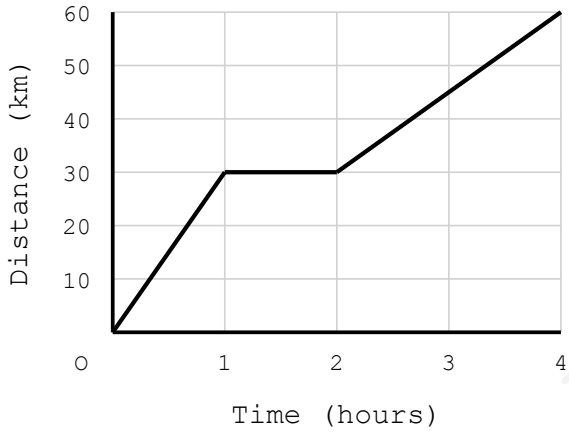
Q22. The graph shows a car journey. How far did the car travel in the first hour?



A. 10 km B. 20 km C. 30 km D. 40 km E. 60 km

Q23. A football team scores 6 points for a win and −4 points for a loss. After 5 wins and 6 losses, what is the team's total?

A. −6 B. 2 C. 6 D. 11 E. 54

Q24. A baker says there are about 300 buns, rounded to the nearest 50. Which of these could NOT be the true number of buns?

A. 276 B. 299 C. 310 D. 324 E. 329

Q25. A cuboid measures 11 cm by 3 cm by 4 cm. What is its volume?

A. 18 cm^3 B. 33 cm^3 C. 44 cm^3 D. 132 cm^3 E. 144 cm^3

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Q26. A jacket costs £45. Which saves more, taking 20% off the price or taking £8 off it, and by how much?

A. £8 off, by £1

B. 20% off, by £2

C. £8 off, by £2

D. Neither: they save the same

E. 20% off, by £1

Q27. What is 11 × 12?

A. 121 B. 122 C. 132 D. 144 E. 154

Q28. How can you tell that 4,158 divides exactly by 9 without doing the division?

A. It is an even number

B. It ends in 8

C. Its digits add up to 9

D. Its digits add up to 18, a multiple of 9

E. It divides by 3, so it must divide by 9

Q29. Convert 4,050 g to kilograms.

A. 0.405 kg B. 4.05 kg C. 4.5 kg D. 40.5 kg E. 405 kg

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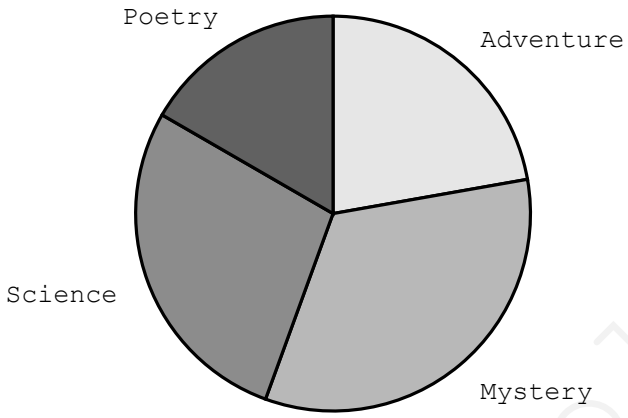
Q30. The pie chart shows the 90 books in a class library sorted by type. The adventure sector has an angle of 80°. How many adventure books are there?



A. 16 B. 20 C. 24 D. 30 E. 36

Q31. A train leaves at 15:38 and the journey takes 1 hour 47 minutes. At what time does it arrive?

A. 17:05 B. 17:15 C. 17:25 D. 17:35 E. 17:45

Q32. A bus travels 96 km in 1 hour 30 minutes at a steady speed. How far does it travel in 4 hours?

A. 192 km B. 224 km C. 240 km D. 256 km E. 288 km

Q33. Trip tickets cost £7.50 each and a class needs 30 of them. The class has already raised £180. How much more money is needed?

A. £30 B. £45 C. £55 D. £40 E. £25

Q34. A rectangle is x cm wide and is 3 cm longer than it is wide. Which expression gives its perimeter?

A. 2x + 3 B. 4x + 3 C. 2x + 6 D. x + 3 E. 4x + 6

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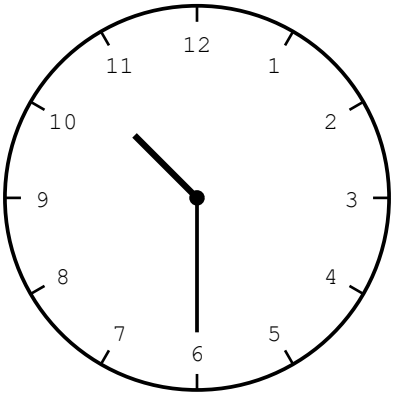
Q35. What is the size of the angle between the hands of this clock?



A. 75° B. 105° C. 120° D. 135° E. 150°

Q36. A shop sells the same rice in three sizes: 250 g for £1.15, 400 g for £1.76 and 1 kg for £4.60. Which size is the best value for money?

A. 250 g for £1.15

B. 400 g for £1.76

C. 1 kg for £4.60

D. The 250 g and 400 g sizes are equal best

E. All three are equal value

Q37. Where does the line y = x + 4 cross the x-axis?

A. (4, 0) B. (0, 4) C. (0, −4) D. (−4, 0) E. (−4, −4)

Q38. A clock loses 3 minutes every day. It is set to the right time at noon on Monday. What time does it show at noon on the following Monday?

A. 11:57 B. 11:39 C. 12:21 D. 11:21 E. 11:45

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Q39. A box weighs 500 g when empty. It is filled with 24 tins each weighing 400 g. What is the total mass in kilograms?

A. 9.6 kg B. 9.9 kg C. 10.1 kg D. 10.5 kg E. 12.5 kg

Q40. What is the largest two-digit number that is a multiple of both 4 and 6?

A. 84 B. 72 C. 98 D. 96 E. 88

Q41. A path is laid with square slabs measuring 50 cm by 50 cm. The path is 12 m long and 1 m wide. How many slabs are needed?

A. 48 B. 24 C. 12 D. 96 E. 60

Q42. The temperature starts at 4°C and falls 3 degrees every hour. After how many hours is it −11°C?

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

Q43. A car travels at 67.4 mph for 2.8 hours. Estimate the distance by rounding each value to 1 significant figure.

A. 180 miles B. 189 miles C. 200 miles D. 210 miles E. 220 miles

Q44. Which of these divisions has an answer greater than 10?

A. 48 ÷ 4 B. 36 ÷ 4 C. 90 ÷ 9 D. 56 ÷ 7 E. 63 ÷ 9

Q45. A light aircraft flies for 1 hour 45 minutes at a steady 240 km/h. How far does it fly?

A. 360 km B. 400 km C. 420 km D. 440 km E. 480 km

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Q46. Three quarters of a number is 60. What is two fifths of the same number?

A. 32 B. 40 C. 24 D. 48 E. 16

Q47. Sam has 20 coins, all 10p or 50p, worth £6.80 altogether. How many 50p coins does he have?

A. 8 B. 10 C. 12 D. 14 E. 16

Q48. In which of these numbers does the digit 5 stand for 5 hundredths?

A. 3.502 B. 3.5 C. 5.32 D. 3.052 E. 0.005

Q49. Each exterior angle of a regular polygon is 30°. What is the size of each interior angle?

A. 150° B. 120° C. 60° D. 30° E. 160°

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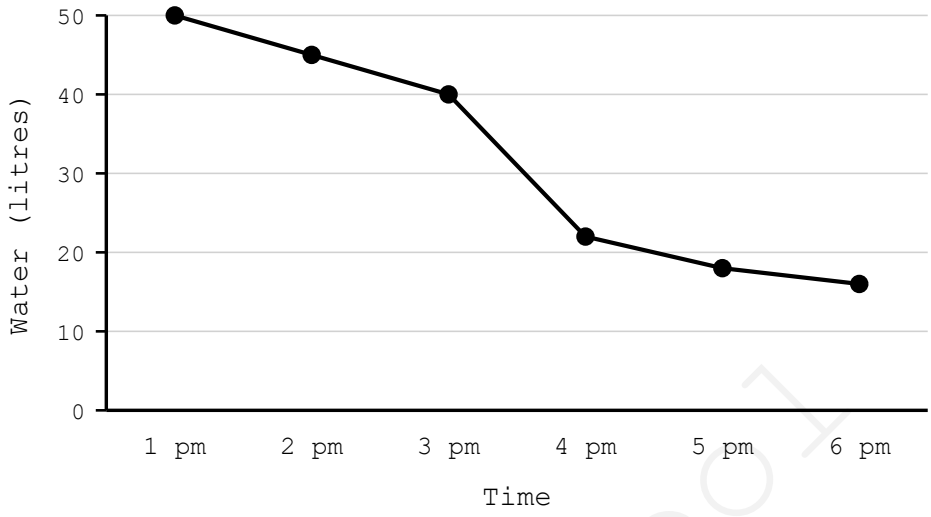
Q50. The line graph shows the water in a tank during the afternoon. During which hour did the tank lose water fastest?



A. 1 pm to 2 pm

B. 2 pm to 3 pm

C. 3 pm to 4 pm

D. 4 pm to 5 pm

E. 5 pm to 6 pm

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