Maths Mock Test Paper 16

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. A sequence begins 3, 6, 12, 24. How is each term made from the one before it?

A. Add 3

B. Add 6

C. Double it

D. Multiply by 3

E. Add the two terms before it

Q2. A clock shows 18:30. What is this time using am or pm?

A. 6:30 am *B.* 6:30 pm *C.* 8:30 am *D.* 8:30 pm *E.* 10:30 pm

Q3. Amir shades 3 of the 10 equal parts of a paper strip. What percentage of the strip is shaded?

A. 3% *B.* 10% *C.* 13% *D.* 30% *E.* 70%

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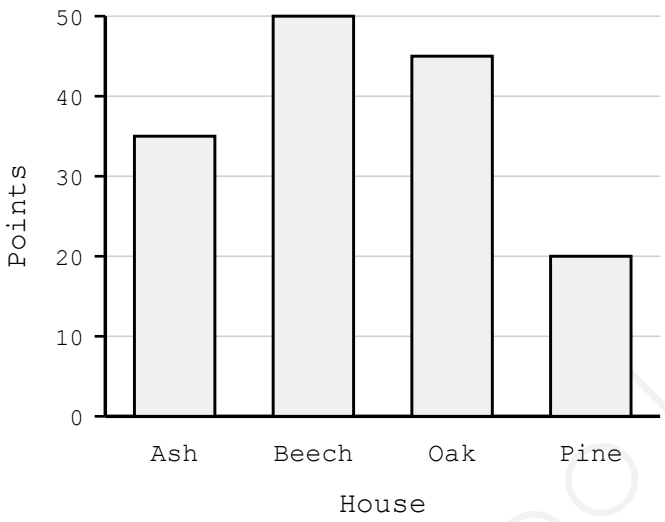
Q4. Use the bar chart. How many more points did Beech score than Pine?



A. 15 *B.* 20 *C.* 25 *D.* 30 *E.* 70

Q5. Ravi has £5. He buys a comic for £2.65 and a drink for 90p. How much money does he have left?

A. £1.35 *B.* £1.45 *C.* £1.55 *D.* £2.35 *E.* £3.55

Q6. Round 750 to the nearest 100.

A. 700 *B.* 750 *C.* 760 *D.* 800 *E.* 900

Q7. Which of these numbers is NOT in the 6 times table?

A. 36 *B.* 42 *C.* 54 *D.* 58 *E.* 66

Q8. Pencils are sold only in packs of 5. Which of these could NOT be the total number of pencils bought?

A. 15 *B.* 20 *C.* 25 *D.* 32 *E.* 35

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Q9. Which of these journeys takes the longest time?

A. 10 km at 10 km/h

B. 20 km at 20 km/h

C. 30 km at 20 km/h

D. 40 km at 40 km/h

E. 60 km at 30 km/h

Q10. A ribbon is 250 cm long. How long is it in metres?

A. 0.25 m *B.* 2.5 m *C.* 25 m *D.* 250 m *E.* 2,500 m

Q11. A bag holds red and blue counters in the ratio 3 : 5. Which of these could NOT be the total number of counters in the bag?

A. 16 *B.* 24 *C.* 30 *D.* 40 *E.* 48

Q12. Which number goes in the blank space: 40 + 0.3 + _____ + 0.007 = 40.357?

A. 5 *B.* 0.5 *C.* 0.05 *D.* 0.005 *E.* 50

Q13. The temperature was recorded on five days as 3°C, −2°C, 0°C, −6°C and 5°C. What is the range of these temperatures?

A. 1°C *B.* 5°C *C.* 6°C *D.* 11°C *E.* 16°C

Q14. A lorry travels 270 km in 4 hours 30 minutes. What is its average speed?

A. 50 km/h *B.* 55 km/h *C.* 60 km/h *D.* 65 km/h *E.* 67 km/h

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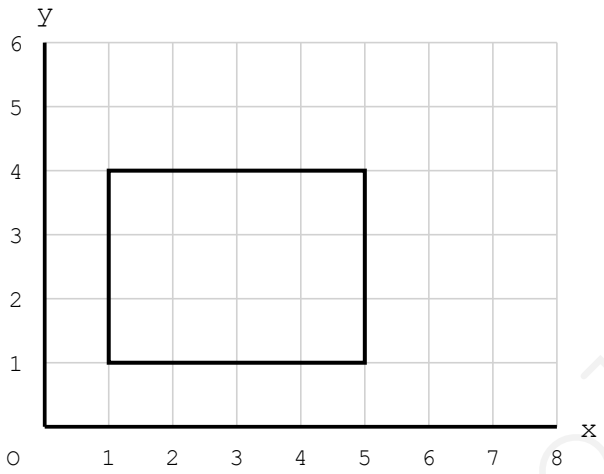
Q15. The rectangle has a vertical line of symmetry. What is the equation of that line?



A. x = 3 *B.* x = 2 *C.* y = 3 *D.* y = 2.5 *E.* x = 2.5

Q16. Multiplying a number by 0.1 does the same job as which of these?

A. Dividing by 10

B. Multiplying by 10

C. Dividing by 100

D. Subtracting 0.1

E. Writing a zero on the end

Q17. A cube has edges of 9 cm. What is its volume?

A. 27 cm^3 *B.* 81 cm^3 *C.* 243 cm^3 *D.* 486 cm^3 *E.* 729 cm^3

Q18. Trains leave every 12 minutes. One leaves at 10:06. What time does the third train after it leave?

A. 10:30 *B.* 10:42 *C.* 10:48 *D.* 10:54 *E.* 11:06

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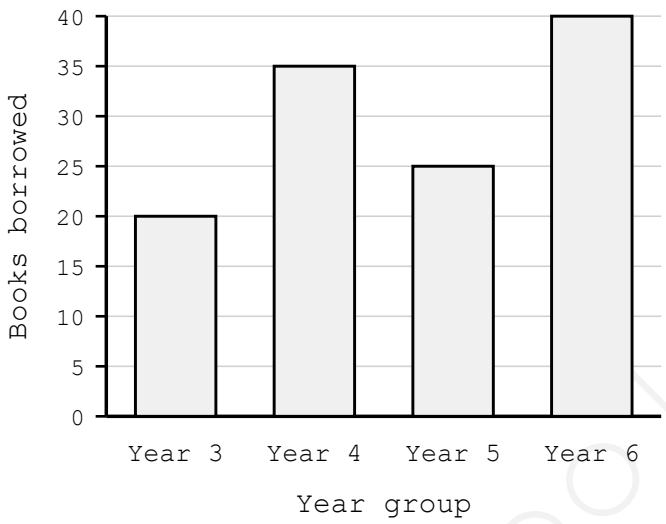
Q19. The bar chart shows the books borrowed from the library by each year group. How many books did Year 5 borrow?



A. 15 *B.* 20 *C.* 25 *D.* 30 *E.* 35

Q20. Which of these statements is NOT true of every rhombus?

A. All four sides are the same length

B. Opposite angles are equal

C. The diagonals cross at right angles

D. All four angles are equal

E. Opposite sides are parallel

Q21. 1 March is a Tuesday. What day of the week is 22 March?

A. Monday *B.* Tuesday *C.* Wednesday *D.* Thursday *E.* Friday

Q22. Round 0.00473 to 2 significant figures.

A. 0.004 *B.* 0.0047 *C.* 0.00473 *D.* 0.0048 *E.* 0.005

Q23. How many hundredths are there in 3.4?

A. 0.34 *B.* 34 *C.* 304 *D.* 340 *E.* 3,400

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Q24. A rectangle measures 25 cm by 15 cm. What is its perimeter?

A. 40 cm *B.* 50 cm *C.* 70 cm *D.* 80 cm *E.* 375 cm

Q25. A train leaves at 06:55 and arrives at 09:40. How long is the journey?

A. 2 hours 15 minutes

B. 2 hours 35 minutes

C. 2 hours 45 minutes

D. 3 hours 15 minutes

E. 3 hours 45 minutes

Q26. Which of these fractions is NOT in its simplest form?

A. 3/7 *B.* 5/9 *C.* 6/15 *D.* 7/11 *E.* 9/16

Q27. A square lawn has sides of 15 m. A fence costing £4 per metre is put all the way round. What is the total cost?

A. £60 *B.* £180 *C.* £225 *D.* £240 *E.* £900

Q28. What is 15 × 24?

A. 240 *B.* 300 *C.* 340 *D.* 360 *E.* 390

Q29. What is the 9th square number?

A. 18 *B.* 45 *C.* 64 *D.* 81 *E.* 99

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Q30. The points A (2, 5) and B (2, −1) are joined by a straight line. How long is the line, and which way does it run?

A. 4 squares, vertical

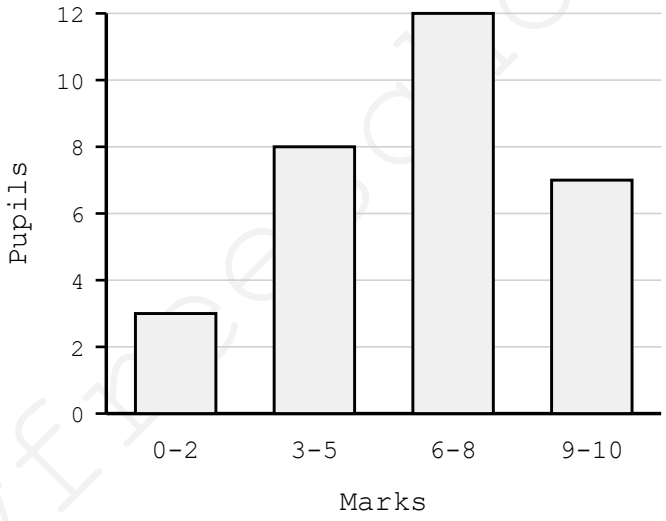
B. 6 squares, vertical

C. 6 squares, horizontal

D. 7 squares, vertical

E. 7 squares, horizontal

Q31. The bar chart shows the marks pupils scored in a spelling test, grouped into bands. How many pupils scored between 6 and 8 marks?



A. 7 *B.* 8 *C.* 10 *D.* 12 *E.* 15

Q32. A recipe for 9 people uses 720 g of mince. How much mince is needed for 4 people?

A. 280 g *B.* 300 g *C.* 320 g *D.* 360 g *E.* 400 g

Q33. A bank account has a balance of −£48. The customer pays in £30 each week. After how many weeks will the balance first be positive?

A. 1 week *B.* 2 weeks *C.* 3 weeks *D.* 4 weeks *E.* 5 weeks

Q34. Which of these numbers divides exactly by both 3 and 4, but not by 5?

A. 20 *B.* 24 *C.* 30 *D.* 45 *E.* 60

Q35. How many 250 ml glasses can be filled from 3 litres of water?

A. 6 *B.* 8 *C.* 10 *D.* 12 *E.* 15

Q36. Estimate the area of a circle with radius 4.9 cm by rounding the radius to the nearest whole number and using $\pi \approx 3$.

A. 69 cm² *B.* 72 cm² *C.* 75 cm² *D.* 78 cm² *E.* 82 cm²

Q37. A ferry leaves every 40 minutes, and the first one of the day leaves at 06:20. At what time does the eighth ferry leave?

A. 10:20 *B.* 10:40 *C.* 11:00 *D.* 11:20 *E.* 11:40

Q38. In a class the ratio of boys to girls is 4 : 5. If 3 more boys join the class, there are equal numbers of boys and girls. How many girls are in the class?

A. 9 *B.* 12 *C.* 15 *D.* 18 *E.* 20

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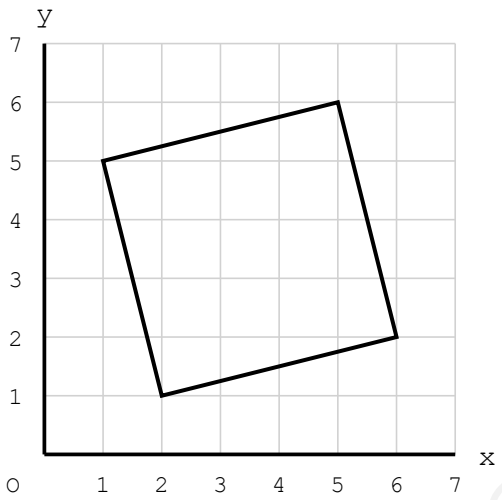
Q39. What is the area of this tilted square, in squares?



A. 15 *B.* 16 *C.* 17 *D.* 18 *E.* 20

Q40. Which of these sets of three angles could NOT be the angles of a triangle?

A. 60°, 60°, 60°

B. 90°, 45°, 45°

C. 100°, 40°, 40°

D. 110°, 40°, 30°

E. 120°, 30°, 20°

Q41. 65% of a number is 91. What is the number?

A. 120 *B.* 130 *C.* 140 *D.* 145 *E.* 150

Q42. A tin of paint covers 12 m². A wall 8 m long and 3 m high is to be given two coats. How many tins are needed?

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

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Q43. The speed of light is roughly 299,792,458 m/s. What is this value rounded to the nearest million?

A. 299,000,000

B. 300,000,000

C. 299,800,000

D. 300,792,000

E. 290,000,000

Q44. The nth term of a sequence is 60 − 4n. Which is the first term that is negative?

A. 14th term *B.* 15th term *C.* 16th term *D.* 17th term *E.* 20th term

Q45. A driver covers 60 km at 40 km/h and then drives the same 60 km back at 60 km/h. How long does the whole journey take?

A. 2 hours

B. 2 hours 15 minutes

C. 2 hours 30 minutes

D. 2 hours 45 minutes

E. 3 hours

Q46. What is the mean of −12, −7, −5 and 0?

A. −8 *B.* −6 *C.* −5 *D.* −3 *E.* 6

Q47. What is 12 × 12 − 11 × 11?

A. 1 *B.* 12 *C.* 23 *D.* 25 *E.* 121

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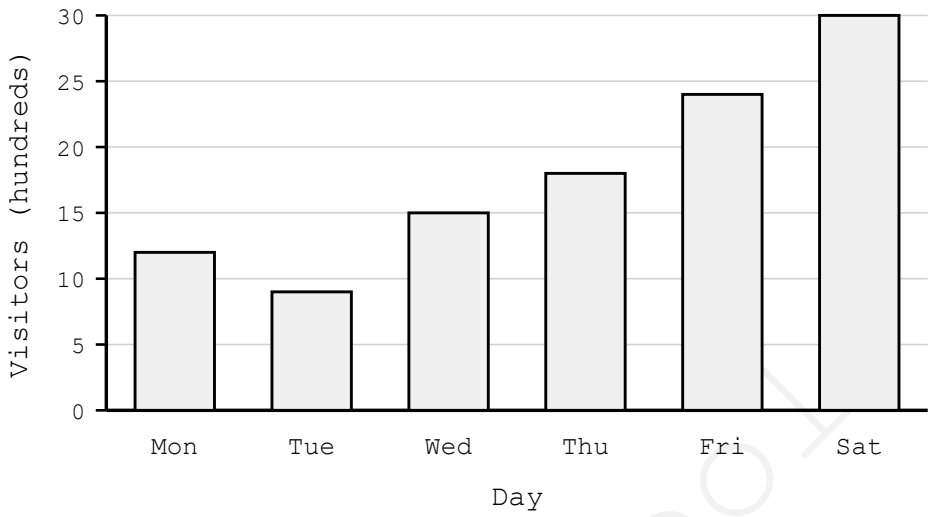
Q48. Use the bar chart. What is the ratio of Monday's visitors to Thursday's visitors, in its simplest form?



A. 1:2 *B.* 1:3 *C.* 2:3 *D.* 3:4 *E.* 4:5

Q49. What is the highest common factor (HCF) of 45 and 75?

A. 3 *B.* 5 *C.* 9 *D.* 15 *E.* 25

Q50. Three children share £96 so that the eldest receives twice as much as each of the other two, who receive equal amounts. How much does the eldest receive?

A. £24 *B.* £32 *C.* £40 *D.* £48 *E.* £64

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