Maths Mock Test Paper 17

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. Which of these is another way of writing 1/5?

A. 0.15 *B.* 0.2 *C.* 1.5 *D.* 5% *E.* 15%

Q2. A film starts at 16:15 and lasts 1 hour 30 minutes. At what time does it finish?

A. 17:15 *B.* 17:30 *C.* 17:45 *D.* 18:00 *E.* 18:15

Q3. A fruit drink is made with 2 parts juice to 3 parts water. What fraction of the drink is juice?

A. 1/5 *B.* 2/5 *C.* 1/2 *D.* 3/5 *E.* 2/3

Q4. If n = 12, what is the value of n ÷ 3?

A. 3 *B.* 4 *C.* 6 *D.* 9 *E.* 36

Q5. A lesson starts at quarter past ten and ends at five to eleven. How long does it last?

A. 35 minutes

B. 40 minutes

C. 45 minutes

D. 50 minutes

E. 1 hour 40 minutes

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Q6. Estimate 278 + 394 by rounding each number to the nearest 100.

A. 600 *B.* 672 *C.* 700 *D.* 750 *E.* 800

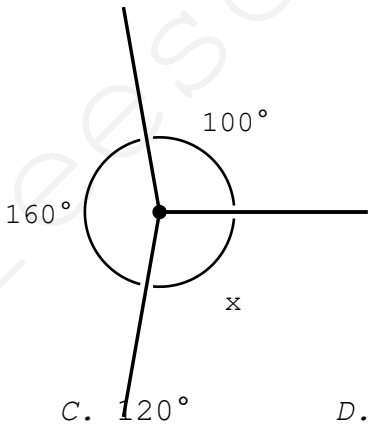
Q7. A cuboid is built from centimetre cubes. It is 4 cubes long, 3 cubes wide and 2 cubes high. How many cubes are used?

A. 9 *B.* 12 *C.* 18 *D.* 24 *E.* 36

Q8. Which of these four points is furthest to the left?

A. (−5, 0) *B.* (−1, 6) *C.* (2, −9) *D.* (0, −7) *E.* (−3, 4)

Q9. These three angles meet at a point. Work out the size of angle x.



A. 100° *B.* 110° *C.* 120° *D.* 150° *E.* 160°

Q10. Which of these numbers lies between −5 and −1 on a number line?

A. −6 *B.* −3 *C.* 0 *D.* 1 *E.* 5

Q11. What is 306 − 189?

A. 107 *B.* 117 *C.* 123 *D.* 127 *E.* 217

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Q12. Three angles of a quadrilateral are 85°, 95° and 100°. What is the fourth angle?

A. 70° *B.* 80° *C.* 90° *D.* 100° *E.* 110°

Q13. Which is the longer distance, 0.75 km or 800 m, and by how much?

A. 0.75 km, by 5 m

B. 0.75 km, by 50 m

C. 800 m, by 25 m

D. 800 m, by 50 m

E. Neither: they are the same

Q14. A lift starts on floor 5, goes down 9 floors and then up 3 floors. Which floor is it on now?

A. −7 *B.* −1 *C.* 0 *D.* 1 *E.* 7

Q15. A new car costs £14,500. If a buyer pays entirely with £100 notes, how many notes will they need to hand over?

A. 145 *B.* 1,450 *C.* 14.5 *D.* 14 *E.* 150

Q16. A car park holds 48 vehicles, and there are three times as many cars as vans. How many vans are there?

A. 12 *B.* 16 *C.* 24 *D.* 32 *E.* 36

Q17. If $x = 4$ and $y = 6$, what is the value of $5x - 2y$?

A. 2 *B.* 8 *C.* 10 *D.* 14 *E.* 32

Q18. Round 12.75 to 1 decimal place.

A. 12.7 *B.* 12.75 *C.* 12.8 *D.* 12.9 *E.* 13.0

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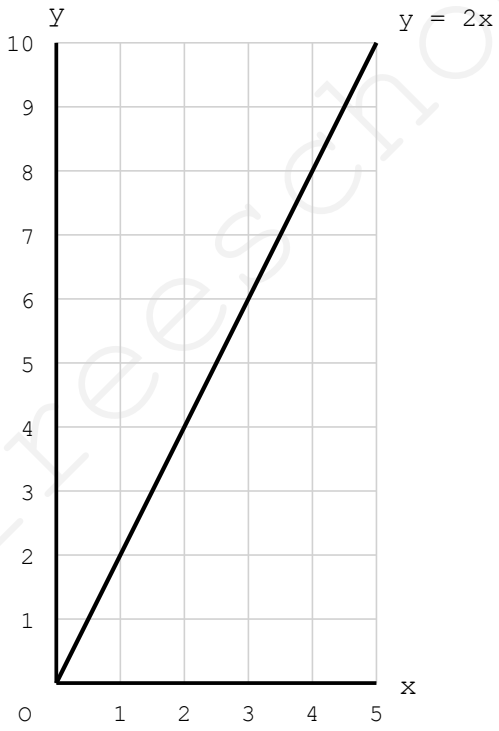
Q19. A straight line passes through the points (0, 4) and (2, 4). What is the equation of the line?

A. x = 4 *B.* y = 4 *C.* y = x + 4 *D.* y = 4x *E.* x + y = 4

Q20. A journey of 2 hours 50 minutes finishes at 16:05. What time did it start?

A. 13:15 *B.* 13:25 *C.* 13:35 *D.* 14:15 *E.* 18:55

Q21. The line drawn on the grid is y = 2x. What is the value of y when x = 4?



A. 2 *B.* 4 *C.* 6 *D.* 8 *E.* 10

Q22. What is the result of subtracting 9 from −4?

A. −13 *B.* −9 *C.* −5 *D.* 5 *E.* 13

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Q23. Round 37,500 to 2 significant figures.

A. 37,000 *B.* 37,500 *C.* 37,600 *D.* 38,000 *E.* 40,000

Q24. A train leaves at 11:52 and arrives at 14:23. How long is the journey?

A. 2 hours 21 minutes

B. 2 hours 29 minutes

C. 2 hours 31 minutes

D. 2 hours 39 minutes

E. 3 hours 31 minutes

Q25. In a pictogram one square stands for 12 cakes. How many cakes does a row of 2 and a half squares stand for?

A. 30 *B.* 36 *C.* 42 *D.* 48 *E.* 60

Q26. Sam works out 7 × 24 by finding 7 × 20 and 7 × 4 and adding the two results. What answer should he get?

A. 148 *B.* 154 *C.* 164 *D.* 168 *E.* 188

Q27. Two numbers add up to 30 and their difference is 6. What is the larger number?

A. 12 *B.* 15 *C.* 16 *D.* 18 *E.* 24

Q28. A jug holds 2 litres when full. It is three quarters full. How many millilitres of water are in it?

A. 150 ml *B.* 500 ml *C.* 750 ml *D.* 1,500 ml *E.* 1,750 ml

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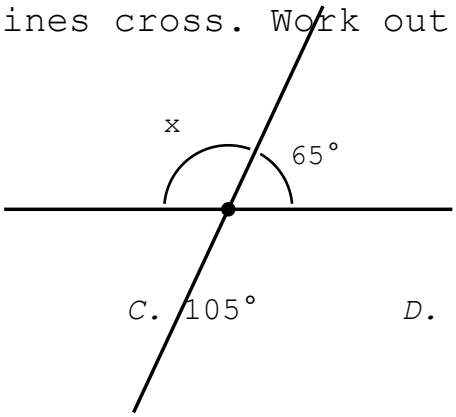
Q29. Two straight lines cross. Work out the size of angle x.



A. 25° *B.* 65° *C.* 105° *D.* 115° *E.* 125°

Q30. A shop has 84 sweets and 63 chocolates to put into identical party bags, using all of them. What is the greatest number of bags possible?

A. 3 *B.* 7 *C.* 12 *D.* 21 *E.* 28

Q31. Solve for x.

$$4x - 3 = 21$$

A. 4 *B.* 5 *C.* 6 *D.* 8 *E.* 24

Q32. A rectangular garden measures 8 m by 5 m. A square shed with sides of 2 m stands on it. How much of the garden is not covered by the shed?

A. 30 m² *B.* 34 m² *C.* 36 m² *D.* 38 m² *E.* 44 m²

Q33. What is 2/3 ÷ 4?

A. 1/12 *B.* 1/6 *C.* 1/3 *D.* 3/8 *E.* 8/3

Q34. A recipe mixes flour and sugar in the ratio 5 : 2. A baker uses 350 g of flour. How much sugar is needed?

A. 70 g *B.* 140 g *C.* 175 g *D.* 200 g *E.* 875 g

Q35. Which of these numbers is the largest?

A. 0.304 *B.* 0.34 *C.* 0.034 *D.* 0.403 *E.* 0.43

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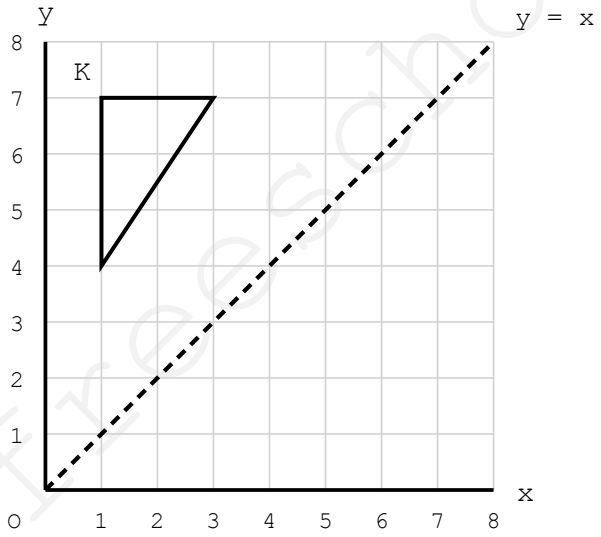
Q36. A sequence starts at 3 and the rule is "square the term, then subtract 2". What is the 3rd term?

A. 7 *B.* 14 *C.* 23 *D.* 47 *E.* 49

Q37. A book has 240 pages. Ben reads a quarter of it on Monday and a third of what is left on Tuesday. How many pages has he still to read?

A. 100 *B.* 120 *C.* 140 *D.* 160 *E.* 180

Q38. The triangle is reflected in the dashed line y = x. What are the coordinates of the image of corner K?



A. (1, 7) *B.* (7, 1) *C.* (4, 1) *D.* (7, 3) *E.* (3, 7)

Q39. A number between 30 and 50 is a multiple of 7 and is two more than a multiple of 5. What is the number?

A. 35 *B.* 42 *C.* 45 *D.* 47 *E.* 49

Q40. One foot is about 30 cm. Roughly how many metres are there in 8 feet?

A. 1.8 m *B.* 2.4 m *C.* 2.8 m *D.* 3.2 m *E.* 24 m

Q41. Two runners start from the same point at the same time and run in opposite directions at 8 km/h and 12 km/h. How far apart are they after 45 minutes?

A. 5 km *B.* 9 km *C.* 12 km *D.* 15 km *E.* 20 km

Q42. How many days are there from 25 March to 8 April, counting both of those days?

A. 13 *B.* 14 *C.* 15 *D.* 16 *E.* 17

Q43. The interior angles of a polygon add up to 1260°. How many sides does it have?

A. 9 *B.* 10 *C.* 11 *D.* 12 *E.* 13

Q44. What is 0.7 × 800?

A. 5.6 *B.* 56 *C.* 560 *D.* 1,600 *E.* 5,600

Q45. Estimate 19.7 + 31.2 + 48.6 by rounding each number to the nearest 10.

A. 90 *B.* 95 *C.* 99 *D.* 100 *E.* 110

Q46. Counting on from 2.85 in steps of 0.05, which of these numbers is reached?

A. 3.02 *B.* 3.10 *C.* 3.13 *D.* 3.24 *E.* 3.31

Q47. What is the mean of −20, −13, −6, 1 and 8?

A. −10 *B.* −7 *C.* −6 *D.* −4 *E.* 6

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Q48. The two-way table shows what pupils ate at lunchtime, but one number is missing. How many Year 5 pupils had a school dinner?

Pupils	Packed lunch	School dinner	Total
Year 5	14	?	30
Year 6	12	16	28
Total	26	32	58

A. 12 *B.* 14 *C.* 16 *D.* 18 *E.* 20

Q49. A bag of 60 sweets holds red and green sweets in the ratio 2 : 3. How many red sweets must be added so that there are equal numbers of each colour?

A. 6 *B.* 10 *C.* 12 *D.* 18 *E.* 24

Q50. A triangle has a base of 13 cm and a height of 10 cm. What is its area?

A. 23 cm² *B.* 46 cm² *C.* 65 cm² *D.* 130 cm² *E.* 260 cm²

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