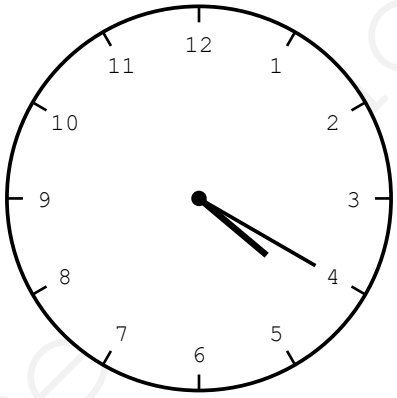
Maths Mock Test Paper 19

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. The clock shows the time a swimming lesson began. The lesson lasted 45 minutes. At what time did it end?



A. 4:55 *B.* 5:00 *C.* 5:05 *D.* 5:15 *E.* 5:20

Q2. How many grams are there in half a kilogram?

A. 50 g *B.* 100 g *C.* 250 g *D.* 500 g *E.* 5,000 g

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Q3. The table shows what four items cost. Ravi estimates the total by rounding every price to the nearest pound. What estimate does he get?

Item	Price
Notebook	£2.15
Pens	£3.80
Ruler	£0.95
Folder	£4.40

A. £10 *B.* £11 *C.* £11.30 *D.* £12 *E.* £13

Q4. What is 7 × 6?

A. 36 *B.* 40 *C.* 42 *D.* 48 *E.* 49

Q5. Look at this rectangle. Which is the larger number: the number of centimetres in its perimeter, or the number of square centimetres in its area?



A. The perimeter number is larger

B. The area number is larger

C. They are the same number

D. The area number is double the perimeter number

E. There is not enough information

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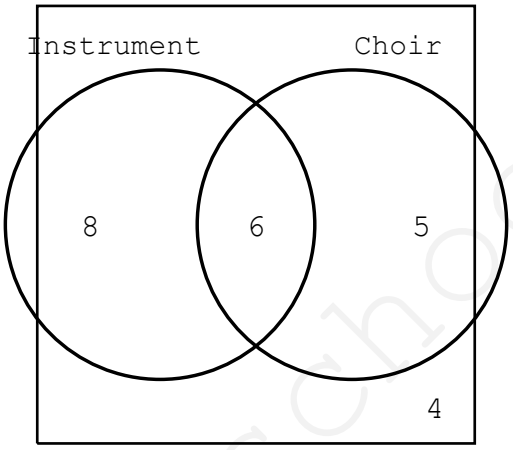
Q6. A car park uses floors 2, 1, 0, −1, −2 and −3. Which floor is 4 floors below floor 1?

A. −4 *B.* −3 *C.* −2 *D.* −1 *E.* 0

Q7. The Venn diagram shows which pupils in a class play an instrument and which sing in the choir. How many pupils are in the class altogether?



A. 11 *B.* 19 *C.* 21 *D.* 23 *E.* 25

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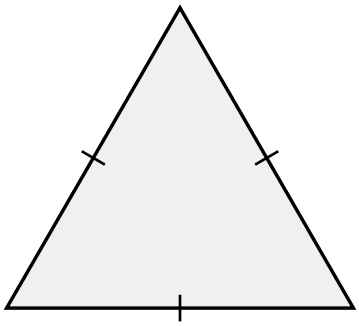
Q8. All three sides of this triangle are the same length, shown by the dashes. What is this type of triangle called?



A. Scalene

B. Isosceles

C. Right-angled

D. Obtuse

E. Equilateral

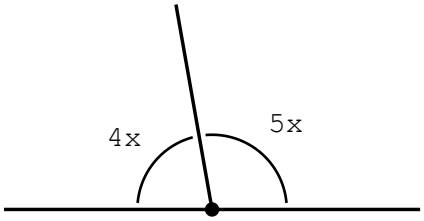
Q9. A drink is made from squash and water in the ratio 1 : 5. A jug holds 600 ml of the drink. How much squash is in the jug?

A. 100 ml *B.* 120 ml *C.* 150 ml *D.* 200 ml *E.* 500 ml

Q10. What is 6.3 − 1.8?

A. 4.4 *B.* 4.5 *C.* 5.1 *D.* 5.5 *E.* 8.1

Q11. Work out the value of x.



A. 15° *B.* 20° *C.* 25° *D.* 30° *E.* 36°

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Q12. The table shows four buses. Anna must be at the school gate by 08:40. Which is the latest bus she can catch from Mill Lane?

Stop	Bus A	Bus B	Bus C	Bus D
Mill Lane	07:52	08:07	08:19	08:31
School gate	08:14	08:29	08:38	08:53

A. Bus A

B. Bus B

C. Bus C

D. Bus D

E. None of them arrives in time

Q13. What is −18 + 7?

A. −25 *B.* −11 *C.* 11 *D.* 18 *E.* 25

Q14. Which list is in order, starting with the smallest?

A. 0.3, 1/4, 35%, 2/5

B. 1/4, 0.3, 35%, 2/5

C. 1/4, 35%, 0.3, 2/5

D. 2/5, 35%, 0.3, 1/4

E. 0.3, 35%, 1/4, 2/5

Q15. What is 2.449 rounded to 1 decimal place?

A. 2.4 *B.* 2.44 *C.* 2.449 *D.* 2.45 *E.* 2.5

Q16. What is 25 × 8?

A. 125 *B.* 175 *C.* 200 *D.* 225 *E.* 250

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Q17. A number machine takes 0.01 away each time its button is pressed. The display shows 4.03. What is on the display after five more presses?

A. 3.53 *B.* 3.93 *C.* 3.98 *D.* 4.02 *E.* 4.08

Q18. A sequence begins 7, 12, 17, 22, ... What is the 12th term?

A. 57 *B.* 60 *C.* 62 *D.* 67 *E.* 72

Q19. A box measures 20 cm by 15 cm by 10 cm inside. How many wooden cubes with 5 cm edges fit inside it exactly?

A. 12 *B.* 18 *C.* 24 *D.* 30 *E.* 60

Q20. What is 8 × 7 + 4 × 3?

A. 60 *B.* 66 *C.* 68 *D.* 72 *E.* 180

Q21. The table shows the lowest temperature on five nights. Which two nights are exactly 7 degrees apart?

Night	Lowest temperature
Monday	−2 °C
Tuesday	3 °C
Wednesday	−5 °C
Thursday	1 °C
Friday	−4 °C

A. Monday and Tuesday

B. Tuesday and Wednesday

C. Tuesday and Friday

D. Wednesday and Thursday

E. Thursday and Friday

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Q22. A line passes through (0, 0) and (2, 6). What is its equation?

A. y = x + 6 *B.* y = 2x *C.* y = 6x *D.* y = x + 3 *E.* y = 3x

Q23. The table shows how far four cyclists rode and how long each of them took. Which cyclist had the fastest average speed?

Cyclist	Distance	Time
Ali	30 km	2 hours
Beth	24 km	1 h 30 min
Cara	45 km	3 hours
Dan	20 km	1 hour

A. Ali

B. Beth

C. Cara

D. Dan

E. They were all the same

Q24. Write 13/20 as a percentage.

A. 13% *B.* 26% *C.* 60% *D.* 65% *E.* 68%

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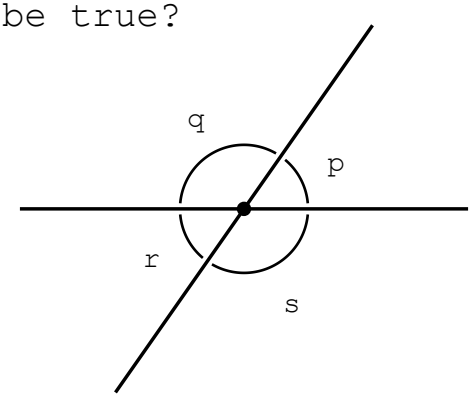
Q25. Two straight lines cross. Without measuring anything, which of these must be true?



A. p and r are equal, and q and s are equal

B. p and q are equal, and r and s are equal

C. p and r add up to 180°

D. all four angles are equal

E. the four angles add up to 180°

Q26. A printer prints 45 pages every minute. How long does it take to print 630 pages?

A. 12 minutes

B. 13 minutes

C. 14 minutes

D. 15 minutes

E. 16 minutes

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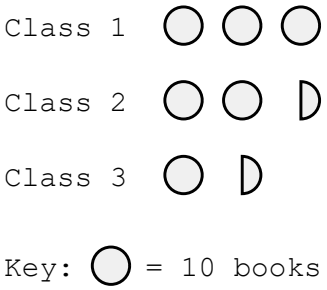
Q27. The pictogram shows how many books three classes read. The row for Class 4 has been left off. All four classes together read 90 books. How many symbols should the Class 4 row have?



A. 1 *B.* 1½ *C.* 2 *D.* 2½ *E.* 3

Q28. A soup recipe for 4 people uses 600 ml of stock. How much stock is needed for 7 people?

A. 900 ml *B.* 1000 ml *C.* 1050 ml *D.* 1200 ml *E.* 1500 ml

Q29. A rectangular lawn measures 8 m by 5 m. A rectangular flower bed 3 m by 2 m is dug out of it. What area of lawn is left?

A. 6 m² *B.* 28 m² *C.* 34 m² *D.* 40 m² *E.* 46 m²

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Q30. Here is the calendar for March. A school camp begins on the third Wednesday of the month and lasts five days. On what date does it end?

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. 17 March *B.* 18 March *C.* 19 March *D.* 20 March *E.* 21 March

Q31. Solve for x.

$$x \div 3 + 2 = 6$$

A. 4 *B.* 8 *C.* 12 *D.* 18 *E.* 24

Q32. Round 0.0572 to 1 significant figure.

A. 0.05 *B.* 0.057 *C.* 0.0572 *D.* 0.06 *E.* 0.6

Q33. Ben's number divides exactly into 60, and it is also in the 6 times table. Which of these is Ben's number?

A. 8 *B.* 12 *C.* 18 *D.* 24 *E.* 40

Q34. A parcel containing 6 identical books weighs 3 kg. What is the mass of one book?

A. 200 g *B.* 300 g *C.* 500 g *D.* 600 g *E.* 1,800 g

Q35. What number is 1,000 less than 63,502?

A. 62,502 *B.* 63,402 *C.* 64,502 *D.* 62,602 *E.* 63,492

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Q36. Four of these calculations give a negative answer. Which one does not?

A. 5 − 12 *B.* −12 − 5 *C.* −12 + 3 *D.* 12 − (−5) *E.* −9 + 4

Q37. How many 250 ml cartons can be filled from 4.5 litres of milk?

A. 12 *B.* 15 *C.* 16 *D.* 18 *E.* 20

Q38. A rectangle has an area of 60 cm² and a width of 5 cm. What is its perimeter?

A. 17 cm *B.* 22 cm *C.* 30 cm *D.* 34 cm *E.* 48 cm

Q39. After a discount of 20% a coat costs £68. What was its price before the discount?

A. £78 *B.* £81.60 *C.* £85 *D.* £88 *E.* £90

Q40. A van drives at a steady 72 km/h for 2 hours 30 minutes. It uses 1 litre of diesel for every 12 km. How much diesel does the journey use?

A. 12 litres *B.* 14 litres *C.* 15 litres *D.* 18 litres *E.* 20 litres

Q41. What is 750 × 4 − 1,000?

A. 1,500 *B.* 1,750 *C.* 2,000 *D.* 2,250 *E.* 2,500

Q42. 1 April is a Monday. What day of the week is 30 April?

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

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Q43. In a class, 3/4 of the pupils walk to school. Of those who walk, 1/3 live on Green Street. What fraction of the whole class lives on Green Street?

A. 1/12 *B.* 1/7 *C.* 1/4 *D.* 5/12 *E.* 3/7

Q44. Which regular polygon has an exterior angle of 45°?

A. Pentagon *B.* Hexagon *C.* Octagon *D.* Nonagon *E.* Decagon

Q45. Which of these numbers is three different prime numbers multiplied together?

A. 24 *B.* 30 *C.* 36 *D.* 45 *E.* 49

Q46. Two whole numbers are each rounded to the nearest 10. One of them rounds to 40 and the other rounds to 70. What is the largest total the two numbers could really have?

A. 108 *B.* 110 *C.* 114 *D.* 118 *E.* 120

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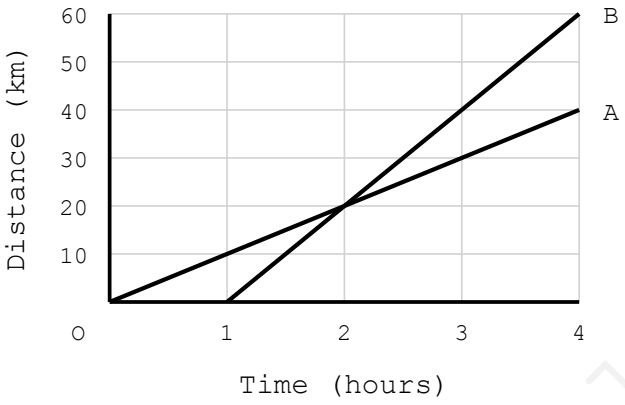
Q47. Use the journey graph. How much faster was Ben travelling than Anya?



A. 5 km/h faster

B. 10 km/h faster

C. 15 km/h faster

D. 20 km/h faster

E. 30 km/h faster

Q48. The nth term of a sequence is 4n + 9. Which term is equal to 65?

A. 12th term *B.* 13th term *C.* 14th term *D.* 15th term *E.* 16th term

Q49. Four painters take 6 days to paint a hall. Working at the same rate, how long would 3 painters take?

A. 4½ days *B.* 5 days *C.* 7 days *D.* 8 days *E.* 9 days

Q50. A number is written as 9 × 10,000 + 4 × 1,000 + 3 × 100 + 7 × 10 + 2. What is the number?

A. 94,372 *B.* 93,742 *C.* 94,732 *D.* 90,437 *E.* 94,327

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