Maths Mock Test Paper 11

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 netball match starts at 11:45 and ends at 12:20. How long does it last?

A. 25 minutes

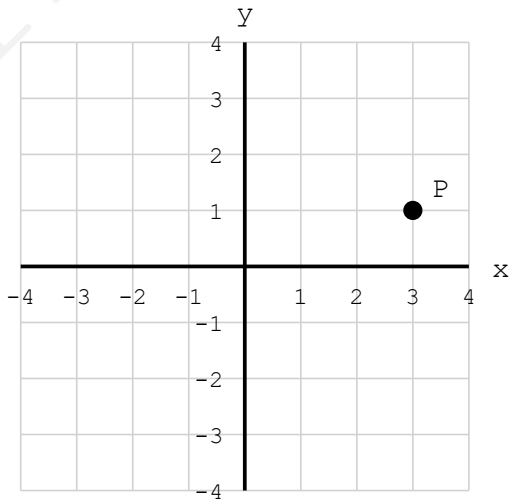
B. 30 minutes

C. 35 minutes

D. 45 minutes

E. 1 hour 35 minutes

Q2. Point P is reflected in the y-axis. What are the coordinates of its image?



A. (3, −1) B. (−1, 3) C. (1, 3) D. (−3, −1) E. (−3, 1)

myfreeschool

Q3. Which of these has the same answer as 18 × 5?

A. 18 × 10

B. 9 × 5

C. 20 × 5 − 2

D. 9 × 10

E. 18 + 5

Q4. A bus leaves at 13:20 and the journey takes 1 hour 50 minutes. At what time does it arrive?

A. 14:50 B. 15:00 C. 15:10 D. 15:20 E. 15:30

Q5. A shop sells oranges at 3 for £1.20. What do 7 oranges cost?

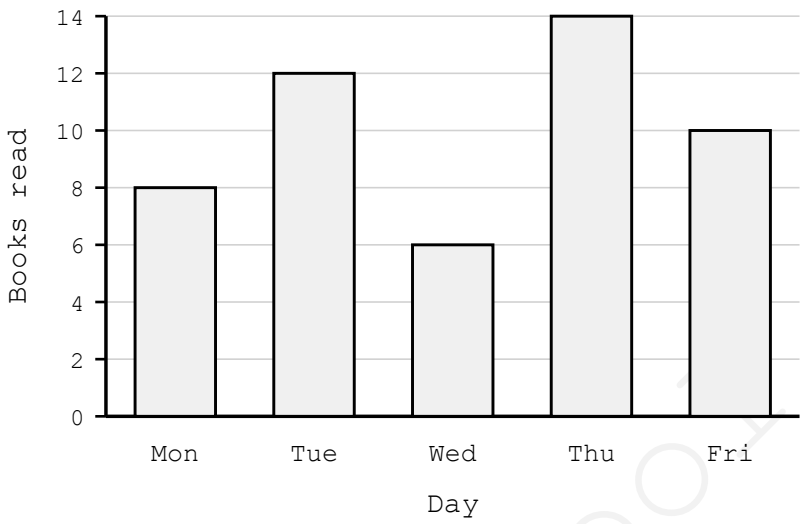
A. £2.40 B. £3.20 C. £2.10 D. £8.40 E. £2.80

Q6. £45 is shared in the ratio 2 : 7. How much is the smaller share?

A. £5 B. £9 C. £10 D. £15 E. £35

myfreeschool

Q7. Use the bar chart. How many books were read altogether during the week?



A. 38 B. 42 C. 46 D. 48 E. 50

Q8. Tom's water bottle holds 750 ml. He drinks 3 full bottles in a day. How many litres does he drink?

A. 2.5 litres

B. 2.25 litres

C. 22.5 litres

D. 1.75 litres

E. 225 litres

Q9. Round 9.9 to the nearest whole number.

A. 9 B. 9.5 C. 9.9 D. 10 E. 11

myfreeschool

Q10. How many degrees warmer is 4 °C than −6 °C?

A. 2 degrees

B. 6 degrees

C. 24 degrees

D. 4 degrees

E. 10 degrees

Q11. A number machine multiplies a number by 3 and then adds 7. Which machine undoes it?

A. Divide by 3, then subtract 7

B. Subtract 7, then divide by 3

C. Add 7, then multiply by 3

D. Subtract 3, then divide by 7

E. Multiply by 3, then subtract 7

Q12. A square has an area of 81 cm². What is its perimeter?

A. 9 cm B. 18 cm C. 27 cm D. 36 cm E. 324 cm

Q13. Twenty minutes of adverts start at 19:40 and are followed straight away by a film lasting 1 hour 55 minutes. At what time does the film end?

A. 21:35 B. 22:15 C. 21:15 D. 20:55 E. 21:55

Q14. Which number rounds to 8,300 to the nearest hundred?

A. 8,321 B. 8,249 C. 8,351 D. 8,405 E. 8,199

myfreeschool

Q15. Ben has to work out 30 − 6 ÷ 2. Which part must he do first, and what is the answer?

A. 30 − 6 first, giving 12

B. 6 ÷ 2 first, giving 12

C. 30 − 6 first, giving 27

D. 6 ÷ 2 first, giving 27

E. Either order: both give the same answer

Q16. The two-way table shows how pupils travel to school. One of these pupils is chosen at random. What is the probability that the pupil cycles?

Pupils	Walk	Cycle	Bus
Year 5	10	6	4
Year 6	8	5	7

A. 1/8 B. 11/40 C. 3/10 D. 2/5 E. 1/2

Q17. Convert 0.06 kg to grams.

A. 0.6 g B. 6 g C. 60 g D. 600 g E. 6,000 g

Q18. A recipe needs 0.785 kg of flour. Round this to 2 decimal places.

A. 0.7 B. 0.78 C. 0.785 D. 0.79 E. 0.8

Q19. A ferry travels 45 km in 1 hour 30 minutes. What is its average speed?

A. 25 km/h B. 30 km/h C. 35 km/h D. 40 km/h E. 45 km/h

myfreeschool

Q20. A drink is made from squash and water in the ratio 1 : 6. Sam says this means that 1/6 of the drink is squash. Is he right?

A. Yes: 1/6 of the drink is squash

B. No: 6/7 of the drink is squash

C. No: 1/5 of the drink is squash

D. No: 1/7 of the drink is squash

E. Yes, but only when the drink is 6 litres

Q21. In a bag of 20 counters, the probability of picking a red counter is 0.35. How many red counters are in the bag?

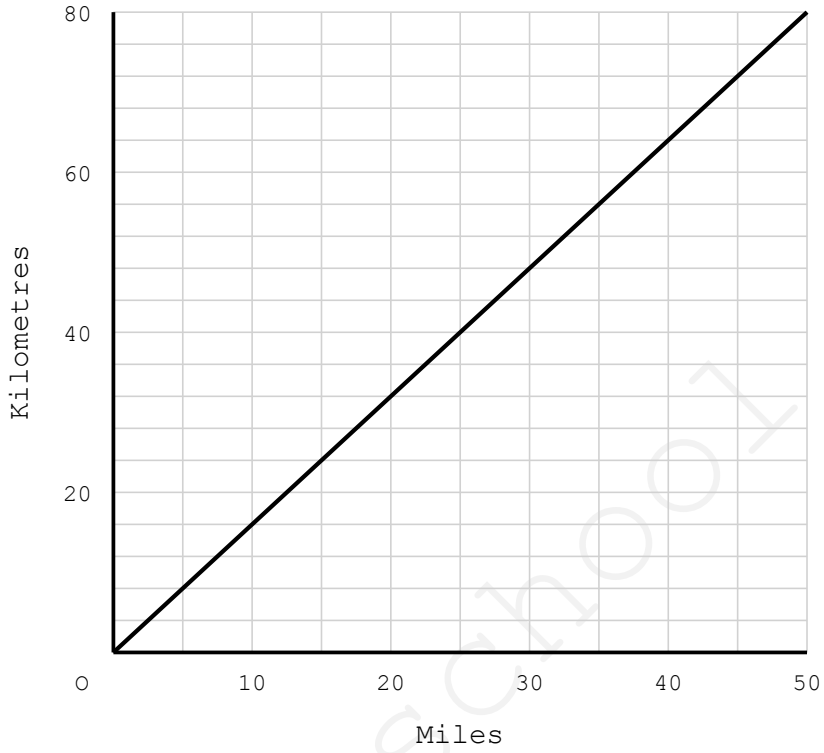
A. 35 B. 7 C. 5 D. 13 E. 6

Q22. The mean of four numbers is 12. Three of the numbers are 10, 11 and 14. What is the fourth number?

A. 11 B. 12 C. 13 D. 14 E. 48

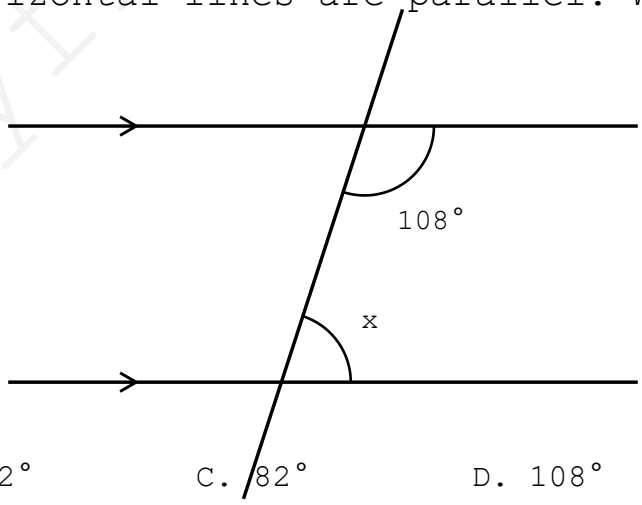
myfreeschool

Q23. This conversion graph changes miles into kilometres. About how many kilometres is 25 miles?



A. 20 km B. 30 km C. 35 km D. 40 km E. 45 km

Q24. The two horizontal lines are parallel. Work out the size of angle x.



A. 36° B. 72° C. 82° D. 108° E. 118°

myfreeschool

Q25. A triangle and a rectangle have the same area. The rectangle measures 8 cm by 3 cm and the triangle has a base of 6 cm. What is the height of the triangle?

A. 4 cm B. 6 cm C. 12 cm D. 3 cm E. 8 cm

Q26. Which is larger, 3/4 of 60 or 60% of 80, and by how much?

A. 3/4 of 60, by 3

B. 60% of 80, by 5

C. 3/4 of 60, by 15

D. 60% of 80, by 3

E. Neither: they are equal

Q27. Leo reads for 25 minutes each night. How long does he read in a week?

A. 2 hours 55 minutes

B. 2 hours 25 minutes

C. 2 hours 45 minutes

D. 3 hours 5 minutes

E. 3 hours 25 minutes

Q28. Which of these numbers does NOT round to 6.4 when rounded to 1 decimal place?

A. 6.44 B. 6.351 C. 6.4049 D. 6.45 E. 6.3999

Q29. A walker leaves at 08:30 and walks 12 km at a steady 4 km/h. At what time does the walker arrive?

A. 10:30 B. 11:00 C. 11:30 D. 12:00 E. 12:30

myfreeschool

Q30. A walker covers 12 km in 3 hours. What is the average speed?

A. 3 km/h B. 4 km/h C. 6 km/h D. 9 km/h E. 36 km/h

Q31. A number is a multiple of 4 and also a multiple of 9. Which of these must it be a multiple of as well?

A. 16 B. 27 C. 45 D. 24 E. 36

Q32. What is the sum of −7, 4 and −5?

A. −16 B. −8 C. −2 D. 2 E. 16

Q33. Simplify this expression.

$$5x + 3y + 2x - y$$

A. $7x + 2y$ B. $7x + 4y$ C. $3x + 2y$ D. $7x - 2y$ E. $9xy$

Q34. How many times bigger is the 6 in 3,684 than the 6 in 1,246?

A. 10 times

B. 100 times

C. 1,000 times

D. 60 times

E. 6 times

Q35. What is $7 \times 6 \div 2$?

A. 14 B. 18 C. 21 D. 24 E. 42

Q36. A driver covers 120 km at 40 km/h and then a further 120 km at 60 km/h. What is the average speed for the whole journey?

A. 45 km/h B. 48 km/h C. 50 km/h D. 52 km/h E. 55 km/h

myfreeschool

Q37. A tank is 3/5 full. After 40 litres are poured in it is 4/5 full. How much does the tank hold when it is full?

A. 200 litres

B. 100 litres

C. 160 litres

D. 250 litres

E. 120 litres

Q38. A garden measures 20 m by 15 m. A path 2 m wide is laid all the way around the outside of it. What is the area of the path?

A. 140 m² B. 148 m² C. 156 m² D. 164 m² E. 180 m²

Q39. Here is a sequence: 3, 7, 15, 31, 63. What rule takes each term to the next one?

A. Double it, then add 1

B. Add 4 each time

C. Double it, then subtract 1

D. Multiply by 2

E. Add the two terms before it

Q40. At midnight the temperature is −6°C. By noon it has risen 11 degrees, and by evening it has fallen 4 degrees from its noon value. What is the evening temperature?

A. −9°C B. −1°C C. 1°C D. 9°C E. 21°C

Q41. A shop takes £1,200 in a week. On Monday it takes a quarter of that, and on Tuesday it takes half as much as on Monday. How much does it take on Tuesday?

A. £150 B. £300 C. £600 D. £75 E. £200

myfreeschool

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

A. 48° B. 72° C. 96° D. 120° E. 144°

Q43. Pencils are sold only in packs of 8. A teacher needs 100 pencils. How many packs must be bought?

A. 13 B. 12 C. 12.5 D. 14 E. 100

Q44. Use the sports day programme. How long do the three events last altogether, not counting the gaps between them?

Event	Starts	Ends
Heats	09:15	10:40
Field events	10:55	12:25
Finals	13:30	15:10

A. 4 hours 5 minutes

B. 4 hours 15 minutes

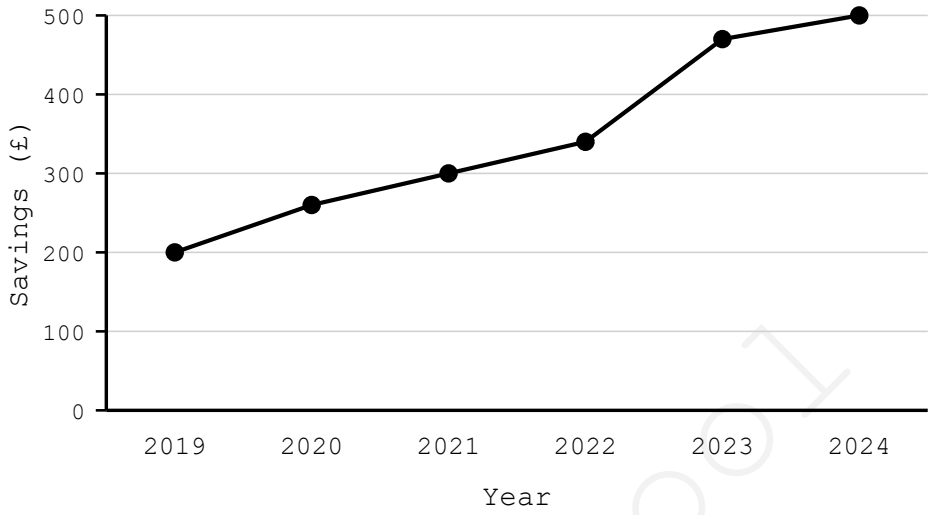
C. 4 hours 25 minutes

D. 4 hours 30 minutes

E. 4 hours 35 minutes

myfreeschool

Q45. The line graph shows the money in a savings account at the end of each year. Between which two years did the savings grow the most?



A. 2019 and 2020

B. 2020 and 2021

C. 2021 and 2022

D. 2022 and 2023

E. 2023 and 2024

Q46. A pond loses 250 ml of water every hour through evaporation. How many litres does it lose in a week?

A. 42 litres

B. 6 litres

C. 1.75 litres

D. 420 litres

E. 168 litres

Q47. If $m = -5$ and $n = -2$, what is the value of $m \times n - 3$?

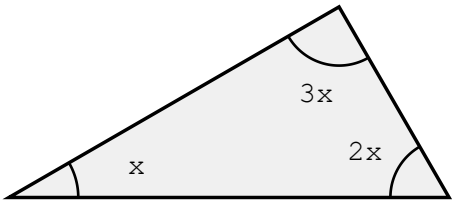
A. −13 B. −7 C. 7 D. 13 E. 17

myfreeschool

Q48. The number 4.8 is divided by 100 and the answer is then multiplied by 10. What number does this give?

A. 0.48 B. 4.8 C. 0.048 D. 48 E. 0.0048

Q49. Work out the size of the largest angle in this triangle.



A. 30° B. 60° C. 90° D. 120° E. 150°

Q50. Where do the lines y = 3x − 2 and y = x + 4 cross?

A. (2, 4) B. (4, 8) C. (3, 6) D. (2, 6) E. (3, 7)

myfreeschool