



11+ MATHS PRACTICE FREE PAPER 1 MULTIPLE CHOICE

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Mathematics Multiple Choice

Paper One

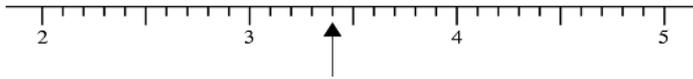
1. This test contains 50 questions.
 2. You have 50 minutes to
 3. Complete the paper.
 4. Mark the answer by circling the correct letter of the alphabet.
 5. Use a pencil for this. If you make a mistake, erase the incorrect answer with a rubber.
 6. You are not allowed to use a calculator.
 7. You can use separate paper to do your working out.
- . If you do not know an answer, leave it out and go back to it at the end.

1. What is the median of the following numbers?

3.6, 4, 4.2, 4.4, 3.8, 3.4

- A. 3.5
- B. 3.9
- C. 3.75
- D. 3.55
- E. 3.7

2. What number is marked with the arrow below?



- A. 34
- B. 3.04
- C. 33.4
- D. 3.4
- E. 0.34

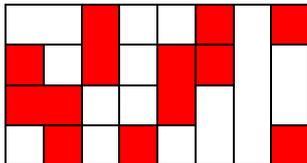
3. Express 40% as a fraction in its lowest term.

- A. $\frac{7}{10}$
- B. $\frac{3}{5}$
- C. $\frac{4}{10}$
- D. $\frac{6}{10}$
- E. $\frac{2}{5}$

4. How many edges does a cube have?

- A. 8
- B. 10
- C. 12
- D. 16
- E. 15

5. Which of the following is a cube number
- A. 75
 - B. 16
 - C. 125
 - D. 81
 - E. 9
6. If 7 out of 25 students in a class were absent. what percent of the students were present.
- A. 28%
 - B. 35%
 - C. 7%
 - D. 65%
 - E. 72%
7. I quadruple a number then subtract 26 from the answer. I end up with 18. What number did I start with?
- A. 8
 - B. 10
 - C. 11
 - D. 9
 - E. 12
8. What fraction of the shape below is not shaded

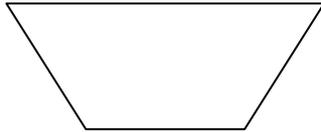


- A. 10/23
 - B. 10/32
 - C. 19/32
 - D. 5/16
 - E. 13/32
9. What is the value of 2^4
- A. 8
 - B. 24
 - C. 16
 - D. 32
 - E. 64

10. What is 34227ml in litres?

- A. 34.227
- B. 3.4227
- C. 342.27
- D. 3422.7
- E. 0.34227

11. What is the mathematical name of the shape below?



- A. rhombus
- B. trapezium
- C. parallelogram
- D. quadrilateral
- E. none of the above

12. What is the 7th term of this sequence below?

3, 6, 11, 18, 27...

- A. 31
- B. 36
- C. 51
- D. 39
- E. 66

13. Which of the following is a prime number?

- A. 87
- B. 27
- C. 37
- D. 9
- E. 15

14. If a quadrilateral has the following angles 36, 105 and 89. What is the size of the missing angle?

- A. 280
- B. 230
- C. 130
- D. 141
- E. 294

15. The area of a square is 25cm^2 . Calculate its perimeter?
- A. 25
 - B. 10
 - C. 5
 - D. 15
 - E. 20
16. A fruit bowl has 6 apples, 9 plums and 3 peas. What is the probability that the next fruit picked is not a plum?
- A. $\frac{2}{3}$
 - B. $\frac{12}{18}$
 - C. $\frac{9}{18}$
 - D. $\frac{1}{3}$
 - E. $\frac{1}{2}$
17. Lisa packs y boxes of pens and x boxes of pencils. She packs 15 pens in each box and 20 pencils in each box. What is the total number of pens and pencils Lisa packs in terms of x and y ?
- A. $35xy$
 - B. $15x + 20y$
 - C. $15y + 20x$
 - D. $(15+x) + (20 + y)$
 - E. $(15 +y) + (20 + x)$
18. Which of the following gives the largest value?
- A. $\frac{1}{3}$ of 27
 - B. 20% of 35
 - C. 15% of 50
 - D. $\frac{1}{5}$ of 40
 - E. 30% of 40
19. If $2y = 4m + c$, which other formulae is the same?
- A. $c = 4m + 2y$
 - B. $m = \frac{(2y+c)}{4}$
 - C. $c = 2(2m + 2y)$
 - D. $c = 2y - 4m$
 - E. $c = 4m - 2y$
20. Which of the following is the smallest number?

-14	10	-8	0	29
A	B	C	D	E

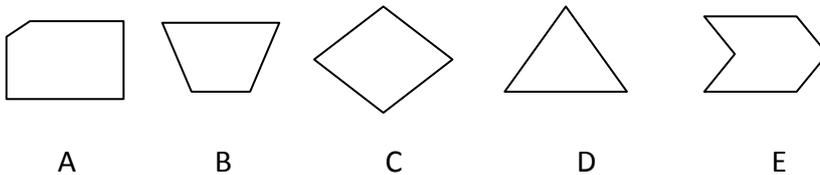
21. It takes Rachel 17 minutes to walk to school and same time to walk back home. How much time does she spend commuting to school during a typical school week?
- A. 1hr 15 minutes
 - B. 2hr 30 minutes
 - C. 2hr 35 minutes
 - D. 1hr 25 minutes
 - E. 2hr 50 minutes
22. If Alice has 80p. What fraction is she left with, if she spends 45p of it on a packet of Galaxy chocolate?
- A. $\frac{7}{16}$
 - B. $\frac{35}{80}$
 - C. $\frac{5}{8}$
 - D. $\frac{45}{80}$
 - E. $\frac{9}{16}$
23. What is $7001 - 3333$
- A. 4382
 - B. 3668
 - C. 4332
 - D. 3888
 - E. 3448
24. What is the value of $\sqrt{64}$
- A. 9
 - B. 13
 - C. 10
 - D. 8
 - E. 6
25. Round 1.53891 2 decimal places
- A. 1.54
 - B. 1538.91
 - C. 1.50
 - D. 1.538
 - E. 1.53

26. What is the value of x in the equation below

$$3x + 2 = 2x - 18$$

- A. 14
- B. -14
- C. 18
- D. -16
- E. -20

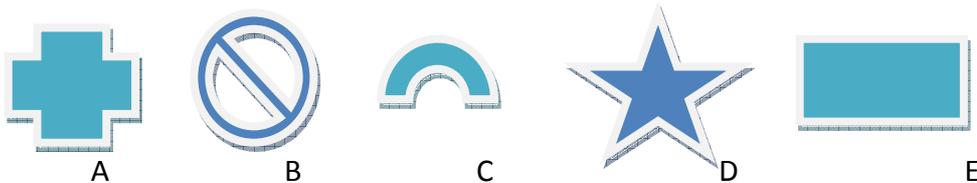
27. Which shape below has just one reflex angle?



28. What is the most likely size of a normal door?

- A. 1.7m
- B. 3.7m
- C. 4.7m
- D. 0.5
- E. 6.7

29. Which of the following shapes has the order of rotation of 1?

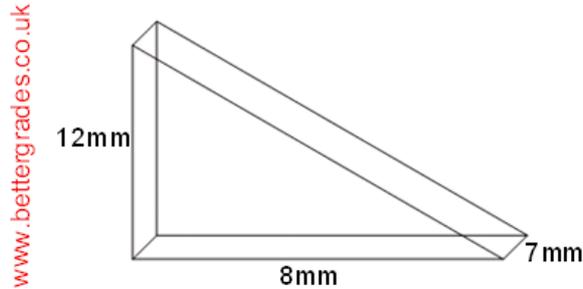


30. If I buy get 30% off the normal price of an i-box, how much do I pay for the i-box if it normally costs £280?

- A. 196
- B. 250
- C. 84
- D. 206
- E. 186

31.

Calculate the volume of the following shape



- A. 336
- B. 56
- C. 108
- D. 672
- E. 198

32. What will six hundred and forty nine thousand be if written in figures.

- A. 600049
- B. 600490
- C. 604900
- D. 600409
- E. 649000

33. Nigel goes shopping. He buys $4\frac{1}{2}$ kg at 64p per kg. How much change does she get from £5.

- A. 2.12
- B. 4.36
- C. 3.08
- D. 2.76
- E. 2.88

34. Which of the following are not factors of 12?

- A. 3
- B. 12
- C. 4
- D. 36
- E. 6

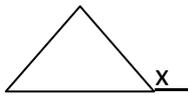
35. What is $\frac{1}{2} + \frac{1}{4}$ equal to

- A. $\frac{1}{8}$
- B. $\frac{1}{3}$
- C. $1\frac{1}{4}$
- D. $\frac{3}{4}$
- E. $\frac{2}{6}$

36. What is the product of 5.6 and 4?

- A. 9.6
- B. 22.4
- C. 1.6
- D. 1.4
- E. 11.6

37. The shape below is an equilateral triangle (Not drawn to scale). Calculate the missing angle?



- A. 150
- B. 60
- C. 130
- D. 120
- E. 110

38. Two seventh of a class of 21 are wearing jumpers. How many students are not wearing jumpers?

- A. 14
- B. 3
- C. 6
- D. 9
- E. 15

39. If 6 rental DVD's cost £18. How much will it cost James to rent 10 DVD's.

- A. 30
- B. 26
- C. 28
- D. 32
- E. 34

40. Calculate 377 divided by 13
- A. 39
 - B. 27
 - C. 38
 - D. 29
 - E. 28
41. Martin put the letters of the word MATHEMATICS in a hat. What is the probability of picking the letters M and T.
- A. $\frac{7}{11}$
 - B. $\frac{2}{11}$
 - C. $\frac{9}{11}$
 - D. $\frac{4}{11}$
 - E. $\frac{5}{11}$
42. Ben received the following amounts during one school week
- 2.19, 1.45, 2.95, 4.15, 1.19
- What was the range of his pocket money over the week?
- A. 2.74
 - B. 2.63
 - C. 2.57
 - D. 1.96
 - E. 2.96
43. The head teacher of Better Grades Grammar school has arranged a trip to Flamingo Land. There are 876 students in the school. How many buses should he order, if each minibus seats only 25 students?
- A. 9 buses
 - B. 15 buses
 - C. 38 buses
 - D. 42 buses
 - E. 36 buses
44. What number is lowest common multiple of 2, 3 and 6
- A. 12
 - B. 18
 - C. 24
 - D. 6
 - E. 30

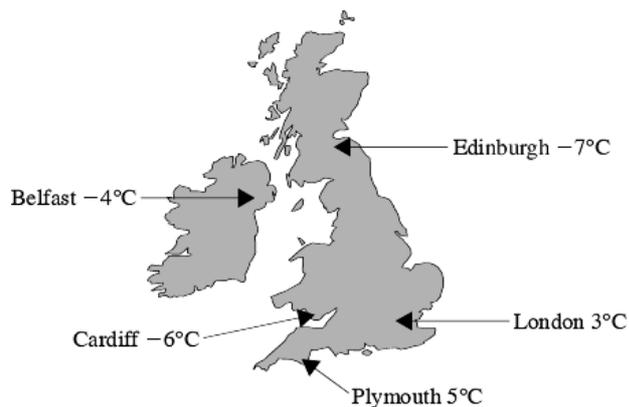
45. Which number is the smallest?

- A. 0.56
- B. 0.067
- C. 0.6
- D. 0.65
- E. 0.605

46. If Sam cycles at a speed of 16 miles per hour. What distance does he cover after one hour and a quarter?

- A. 20
- B. 22
- C. 26
- D. 24
- E. 18

47. The temperature in some places, one night last winter are shown on the map below.



Which two places had the biggest difference in temperature?

- A. Belfast and Cardiff
- B. Edinburgh and Plymouth
- C. London and Edinburgh
- D. Plymouth and Belfast
- E. Edinburgh and Cardiff

48. A map is 1:2500. If the distance on the map is 500cm, what is the actual distance?

- A. 20km
- B. 3km
- C. 1250000cm
- D. 5km
- E. 12.5km

49. What is 19:37 on the 24 hour clock.

- A. 8:37pm
- B. 7:37am
- C. 9:37pm
- D. 7:37pm
- E. 9:37am

50. If Lucy is 8 years old and her mother is 23 years old, after how many years will it take for her to be half her mother's age

- A. 23
- B. 6
- C. 16
- D. 8
- E. 7

++END OF THE TEST++

Answers

- 1 B
- 2 D
- 3 E
- 4 C
- 5 C
- 6 E
- 7 C
- 8 E
- 9 C
- 10 A
- 11 B
- 12 C
- 13 C
- 14 C
- 15 E
- 16 E
- 17 C
- 18 E
- 19 D
- 20 A
- 21 E
- 22 E
- 23 D
- 24 D
- 25 A
- 26 E
- 27 E
- 28 A
- 29 C
- 30 A
- 31 A
- 32 E
- 33 E
- 34 D
- 35 E
- 36 B
- 37 D
- 38 E
- 39 A
- 40 D
- 41 D

- 42 E
- 43 E
- 44 A
- 45 B
- 46 A
- 47 B
- 48 E
- 49 D
- 50 E