11+ For You

Maths Paper 7

Please put your name at the bottom of the page.

This maths paper contains 50 questions.

You have 50 minutes to complete the test.

Write your answer clearly on the paper.

Make sure any mistakes are erased.

Basic Arithmetic

1. What is 27318 - 12731

2. Write this number as a word 10,921

3. What is the square root of 49?

4. How many eggs will you get if you buy a dozen?

5. If a bus can hold 43 people how many can 7 buses hold?

Algebra

Give your answer as a letter in each of the following:-

6. A = 4 B = 6 C = 10 D = 6 E = 8
What is B x A - C - D?

7. If A = 3 B = 6 C = 12 D = 4 E = 9
What is (A + C + E) ÷ D?

8. If A = 17 B = 3 C = 8 D = 12 E = 18
What is (E + C) – (A-B)

9. If A = 3 B = 4 C = 6 D = 48 E = 2
What is D ÷ C – (E + A)?

10. If A = 7 B = 3 C = 10 D = 6 E = 4
What is A x E – (D x B) ?

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Fractions

11. What is 1/9 x 2/12 in its lowest form?

12. Last year 3/4 of my class went on the school trip to the museum. That was 30 students. This year only half of the class want to go. How many will be going?

13. If half of me is 18 what will twice me be?

14. 2/6 of people who read the book liked it and would recommend it. If 360 people read the book how many of those people would recommend it?

15. What is 2/11 – 1/22 in its lowest form?

Percentages

16. What is 60% of 152

17. If there are 48 people in the pool and 75% of them are strong swimmers, how many swimmers would the lifeguard have to watch?

18. My brother tells me that he has lost 40% of the football cards he borrowed. How many will I get back if he borrowed 140?

19. Which is better? Store A that offers £400 discount off price of £2500 or a Store B that offers 20% discount off the same price?

20. If the train takes 2 hours 30 minutes to get to its destination but usually only takes 2 hours, what percentage increase is that?

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Number Sequences

Work out the next number in the sequence

21. 4 12 6 18 9 (?)

22. 93 86 79 72 65 58 (?)

23. 63 56 52 45 41 34 (?)

24. 190 95 90 45 40 (?)

25. 7 15 21 25 27 (?)

Numbers in the Middle

Work out the way the numbers on either side of the brackets work to generate the number in the middle. Use this method to complete the last set of brackets.

26. 3   (27) 9   13 (26) 2   12 (?) 12

27. 1   (6)   2   4 (24) 8   17 (?) 4

28. 7   (30) 3   6 (55) 5   3 (?) 8

29. 47 (31) 16   14 (6) 8   27 (?) 9

30. 42 (14) 14   65 (26) 13   37 (?) 13

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Time

31. If my watch is 19 minutes slow what time is it really if my watch says 12.06?

32. If a movie lasts 1 hour 47 minutes, what time will it finish if it starts at 13.29?

33. If the train left Lime Street at 16.42 and arrived in Euston at 19.17 how long did the journey take?

34. If the plane takes 45 minutes to reach London from Manchester, then waits 3 hours 35 minutes before flying back to Manchester how long will it be gone from Manchester airport?

35. If my watch loses 2 minutes in time per hour, what time will it say after 12 hours if the correct time is 13.02?

Decimals

36 Write 142.14835 correct to four decimal places

37 If I have to pay £21.50 a month for gym membership, how much will I spend in two years?

38. Petrol currently costs £1.13 a litre. How much does 15 litres cost?

39. In a high jump competition the best scores managed by the athletes was 1.83m   1.94m   2.04m   1.72m and 2.14m.   What was the average top jump correct to two decimal places?

40. If I started the day with £8.75, spent £1.28 on travel, double that on food and I repayed the £2.30 I owed my friend, how much did I have left?

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Ratio

41. If a cake mix requires 1 part water to 3 parts flour how much water will I need if the total mixture is 480ml

42. I am buying crisps for the party. I know that there are 60 people coming and the ratio of people who like salt and vinegar to ready salted is 1 to 3. How many bags of salt and vinegar do I need to buy to make sure people who like that get what they want.

43. To make the perfect cup of tea I need to make sure that it is made 6 parts water to one part milk. If the tea is in a 350 ml cup how much milk should I be putting in?

44. The theme park needs 3 staff for every 69 customers. If they have employed 72 staff for the day how many customers will they be expecting?

45. A party organiser needs 2 balloon modellers, 3 clowns and 4 waiters for every 45 guests. If there are 180 guests coming to the party how many clowns are going to be required?

Balancing Equations

46. $15 \times 3 + 8 = 12 \times 4 + 17 - (?)$

47. $4(48 \div 12) = 64 \div 2 - 18 + (?)$

48. $11 \times 4 - 17 = 16 \times 3 - (?)$

49. $2(64 \div 4) - 18 = 7 \times 8 - (?)$

50. $72 \div 2 \div 18 = 4 \times 3 - 6 - (?)$

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Maths Paper 7 – Answersheet

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

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