



# 11+ For You

## Maths Paper 1

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.

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### Basic Arithmetic

1. What is  $28391 + 21728$
2. Write this number as a word 3123
3. What is  $43925 - 2838$
4. What is  $561 \times 3$
5. What is  $8392 \div 4$

### Algebra

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

6.  $A = 4$   $B = 22$   $C = 12$   $D = 24$   $E = 2$   
What is  $C \div E \times A$ ?
7. If  $A = 34$   $B = 32$   $C = 18$   $D = 4$   $E = 16$   
What is  $A - C + E$ ?
8. If  $A = 17$   $B = 7$   $C = 18$   $D = 6$   $E = 16$   
What is  $A + D - E$ ?
9. If  $A = 13$   $B = 5$   $C = 9$   $D = 3$   $E = 19$   
What is  $C \times D - A + B$ ?
10. If  $A = 4$   $B = 6$   $C = 2$   $D = 0$   $E = 12$   
What is  $A \times B + E \times D$ ?

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### Fractions

11. What is  $\frac{2}{3} + \frac{1}{6}$ ?
12. If  $\frac{1}{4}$  the class are absent and there are usually 36 people in the class, how many people are present?
13. What is  $\frac{4}{5} \div \frac{1}{7}$ ?
14. If  $\frac{3}{4}$  of my money is spent on sweets and I had 4.80 to start, how much do I have left?
15. What is  $\frac{14}{20} - \frac{4}{25}$  in its lowest form?

### Percentages

16. What is 40% of 425
17. If there are 240 people in a school and 80% of them are present one day, how many people will be absent?
18. An electrical store offers to reduce prices by 15% for a weekend. If a TV is normally 280 pound how much will it actually be?
19. A supermarket promises that the butter it sells has a 30% extra free in it. How much will be in it if the butter first had 250g in the tub?
20. 5200 people went to a theme park in one day. If 40% of them were children and child tickets are 4 pound each, how much money did the theme park make in child tickets?

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### Number Sequences

Work out the next number in these sequences:-

21. 64 60 56 52 48 (?)

22. 19 38 32 64 58 116 (?)

23. 12 6 18 9 (?)

24. 46 41 37 34 32 (?)

25. 78 89 100 111 122(?)

### Numbers in the Middle

Each number in the middle of the brackets is found by using the same method for each set of brackets. Complete the empty brackets.

26. 15 (20) 5    24 (36) 12    17 (?) 15

27. 4 (24) 12    15 (30) 4    7 (?) 4

28. 66 (12) 11    48 (16) 6    49 (?) 7

29. 45 (29) 16    52 (31) 21    78 (?) 16

30. 12 (48) 2    5 (70) 7    14 (?) 3

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### Time

Look at the timetable below and then answer the questions that follow:-

	Train 1	Train 2	Train 3	Train 4
Umberside	7.30	7.47	-----	7.53
Fallow Point	7.45	-----	7.51	8.08
Rock Station	7.54	8.07	8.00	-----
Greenfields	8.00	8.13	-----	8.22
St. Peter's Station	8.14	-----	8.17	8.36
Davis Square	8.21	8.29	8.24	-----
Bartle	8.30	-----	8.33	8.50
Beechway	8.39	8.38	8.42	8.59

31. If I live in Fallow Point which time train is the best to get to be in Bartle by 8.40?
32. How much longer does the 8.21 from Davis Square take to get to Beechway than the 8.29 from Davis Square?
33. Which train can get me from Umberside to Rock Station in the fastest time?
34. If I got the 7.53 train from Umberside how long would it take me to get to Bartle?
35. I need to be in St. Peter's Station by 8.38, however I do not want to get there too early. If I live near Umberside which time train should I get?

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**Area**

36. What is the perimeter of the shape above?

37. What is the length of *A*?

38. What is the area of the shape?

39. If the shape was folded in the middle along the dotted line what would be the total area?

40. If I wanted to make this into a complete rectangle how much space would I need to fill to cover the two empty spaces?

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### Decimals

41. Write 45.38132 correct to three decimal places
42. If I spend 3.40 on sweets, how much change will I have if I had 4.75 to start?
43. Each week I get 3.40 pocket money. How much do I get in a month?
44. The temperature yesterday was 21.3 degrees. Today it is 23.4 degrees. How much hotter is it today?
45. What is the mean of 3.25 2.51 6.81 3.21 and 4.21?

### Balancing Equations

46.  $16 \times 2 + 17 = 13 \times 3 + 24 - (?)$
47.  $2(4+5) + 21 = 45 \div 5 + (?)$
48.  $56 \div 8 + 14 - 9 = 63 \div 9 + 12 - (?)$
49.  $4 (72 \div 12) \times 2 = 4 \times 3 \times (?)$
50.  $48 \div 6 \div 2 = 3 (88 \div 11) - (?)$

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