



# 11+ For You

## Maths Paper 10

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  $278174 - 27314$ ?
2. What is the square root of 64?
3. Which one of these numbers is **not** a prime number?  
a. 13   b. 17   c. 19   d. 27   e. 29
4. Yesterday I managed to spend double what I normally spend. If I usually spend £4.59 how much did I spend yesterday?
5. If I am three times older than my sister and she was 4 two years ago how old am I?

### Algebra

Give your answer as a letter each time

6. If  $A = 13$   $B = 3$   $C = 15$   $D = 8$   $E = 9$   
What is  $A + B + D - E = (?)$
7. If  $A = 22$   $B = 13$   $C = 10$   $D = 7$   $E = 2$   
What is  $E(B - D) + C = (?)$
8. If  $A = 9$   $B = 18$   $C = 42$   $D = 21$   $E = 12$   
What is  $C - D - E = (?)$
9. If  $A = 38$   $B = 29$   $C = 3$   $D = 12$   $E = 15$   
What is  $(A - B) \div C + D = (?)$
10. If  $A = 12$   $B = 25$   $C = 23$   $D = 10$   $E = 24$   
What is  $E + C - D - A = (?)$

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### Using Data

Using the chart below showing train times, work out the answers to the following questions.

	1	2	3	4
Lime Street	6.15	7.30	8.45	12.05
Runcorn	6.43	7.58	9.14	12.28
Crewe	-----	8.34	10.03	13.25
Stafford	7.37	9.00	-----	14.58
London Euston	8.17	9.58	12.01	16.04

11. If I wanted to get to Crewe by 7.40 what time train would I need to catch from Lime Street
12. If I got the 9.14 train from Runcorn how long would it take me to get to London Euston?
13. If I missed the 7.58 from Runcorn how long would I have to wait until I could get a train to Stafford?
14. If it takes me 35 minutes to get to the station what time would I have to leave home to make sure I was in time for the 14.58 train if I lived in Stafford?
15. Which train completes the Lime Street to London Euston journey in the shortest time?

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### Measurements

16. What is 2342 ml written in litres correct to two decimal places?
17. If the perimeter of a square is 32cm what is the area?
18. In the summer holiday I go swimming everyday for two weeks. I swim 125 metres each day. By the end of the two weeks how far will I have swam?
19. A bucket has a small hole in it. When it is full it can hold 3 litres of water. If the water drips out at 10ml a minute how long will it be before the bucket is empty?
20. I am not the tallest, but I am not the smallest. I am taller than Peter who is 1.35 cm tall but I am smaller than Frank who is 1.59cm tall. He is the second tallest. Harry is 3cm taller than Peter and smaller than me by 8cm. How much smaller than Frank am I?

### Number Sequences

21. 31 36 40 43 45 (?)
22. 81 74 67 60 53 (?)
23. 3 6 12 24 48 (?)
24. 6 18 30 42 54 (?)
25. 7 14 10 20 16 32 (?)

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### Add the missing symbol

( X ÷ + - )

26.  $13 (?) 14 - 7 = 20$

27.  $18 \times 2 + 7 - 6 = 3(16 \div 2) (?) 13$

28.  $7(8 (?) 6) = 3 + 4 + 5 + 2$

29.  $9 \times 4 (?) 12 = 3$

30.  $7 (?) 4 \times 2 = 56$

### Numbers in the middle

Each number in the middle has been made using the numbers on each side in a set way. There has been a maximum of two steps to work out the number.

31.  $18 (2) 9$        $56 (7) 8$        $24 (?) 6$

32.  $27 (9) 9$        $34 (13) 8$        $41 (?) 5$

33.  $7 (42) 3$        $14 (56) 2$        $11 (?) 3$

34.  $15 (11) 2$        $32 (14) 9$        $35 (?) 4$

35.  $29 (47) 18$        $54 (67) 13$        $13 (?) 19$

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### Percentages

36. What is 20% of 322
37. If there are 24 people at the party but this is only 25% of people who are supposed to be coming, how many people are expected in total?
38. If this year we have had 22% more rain in May than in May last year, and last year we had 145ml during May, how much have we had this year?
39. Due to the poor weather the amount of tourists visiting Brighton has fallen by 40%. If usually they can expect 400 people to hire deckchairs each day how many people would they expect now?
40. This year there has been an increase in people visiting the local aquarium. It has gone up 20%. If last year they usually got 200 people a day how much money will they receive each day if the tickets cost £5

### Equations

41.  $81 - 27 - 6 = 3 \times 2 \times (?)$
42.  $8 \times 3 \times 2 = 75 \div 5 + 30 + (?)$
43.  $3(19 - 7) - 6 = 14 \times 2 + 7 - (?)$
44.  $41 - 23 - 7 = 36 \div 3 - 8 + (?)$
45.  $18 \times 2 - 14 = 8 \times 3 - 7 + (?)$

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### Ratio

46. If the one pound gets 1.5 Euro when it is exchanged, how many Euros will I get for 250 pound?

47. If I make tomato soup for dinner and it needs 300ml of water to 600ml of purified tomatoes, how much water will I have put in if the final amount of tomato soup is 3600ml?

48. The sweets that are given out as rewards are divided on a ration of 1:2:3 for 3<sup>rd</sup>, 2<sup>nd</sup> and 1st place. How many sweets does third place get if there were 24 sweets to be given out?

49. If the pharmacist mixes the medicine on the ration 4:7 for painkiller and antibiotics and the final mixture is 330ml how much painkiller would be in the mixture?

50: I am trying to make jelly for my son's birthday party. He wants a huge surprise one and the mould is 6000ml. If the jelly mix required 1:5 jelly to water how much water am I going to have to add?