



10+ For You

Maths Paper Sample 10+

This maths paper contains 50 questions.

You have 50 minutes to complete the test.

Write your answer clearly on the paper.

Check your answers if you have spare time at the end.

Remember to do some working out on paper! Don't try to do it all in your head or you will probably make a mistake.



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Basic Arithmetic

1. What is $839 + 217$?
2. Write this number in words: 131
3. What is $925 - 838$?
4. What is 61×2 ?
5. What is $242 \div 2$?

Fractions

6. What is $\frac{1}{2} + \frac{1}{4}$?
7. If $\frac{1}{4}$ of the total is 4, what is the total?
8. What is $\frac{3}{5} - \frac{1}{5}$?
9. Which of the following fractions is the same as $\frac{2}{4}$?
 $\frac{3}{8}$ $\frac{9}{10}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{7}{10}$
10. What is $\frac{1}{2}$ of 84?



Make sure you read the question carefully and think about what it is asking you to do.

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Percentages

11. What is 10% of 40?
12. If there are 20 people at a party and 20% of them each eat one bag of salt and vinegar crisps, how many bags are eaten?
13. If my pocket money increases by 50% and I used to get £2, how much will I now get?
14. Which of the following fractions is the same as 75%?
 $\frac{1}{2}$ $\frac{5}{6}$ $\frac{3}{4}$ $\frac{7}{10}$ $\frac{4}{20}$
15. Which is larger? 50% of 200 or 25% of 1000?

Factors and Products

16. Write down 3 factors of 8
17. Write down 4 factors of 12
18. How many factors are there in 25?
19. What is the product of 5 and 8?
20. What is the product of 6 and 9?



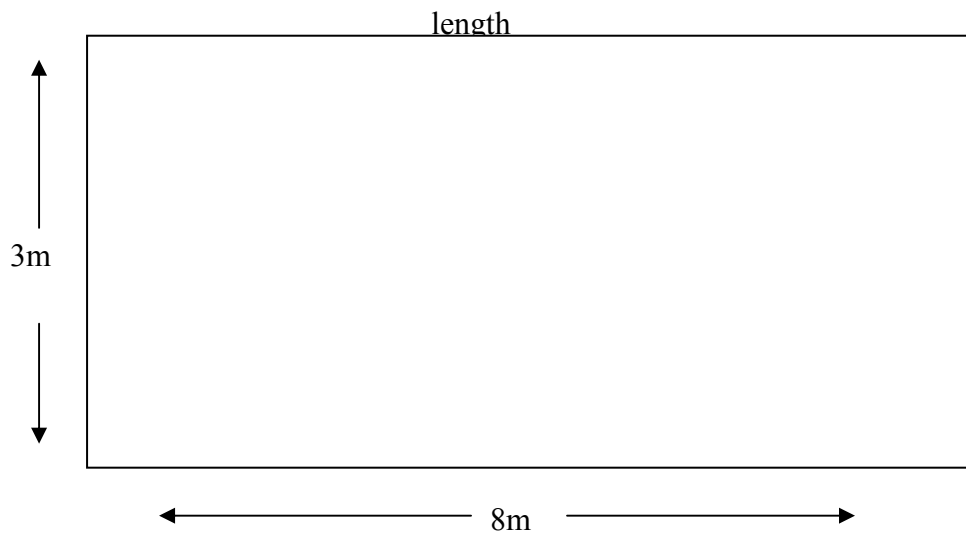
Time

21. If I leave home at 8.15 and it takes me 15 minutes to walk to school, what time do I arrive?
22. Write 3.15pm using the 24 hour clock.
23. If the journey to the city takes 45 minutes, how long will it take to get there and back?
24. My watch is 10 minutes fast. What time is it really if my watch says 4.29pm?
25. How many minutes are there in 4 hours?

Decimals

26. What is 3.7×2 ?
27. If I have £2.90 and I spend £1.10, how much do I have left?
28. If I walk 1.3km each day, how far do I walk in 3 days?
29. A burger costs £1.45 and a drink costs £1.15. How much do I spend if I buy one of each?
30. A box of pencils costs £1.80. How much do I spend if I buy 10 boxes?

Measurements



31. What is the perimeter of the garden?
32. What is the total area of the garden?
33. If I reduce the length of the garden by 25% what would be the area?



If you get stuck on one of the questions, don't panic. Have a guess on the answer sheet and put a circle round the question on the question sheet so you can come back to it later.

Balancing Equations

34. $6 \times 2 + 7 = 3 \times 3 + (?)$

35. $4 + 5 + 6 = 6 \times 2 + (?)$

36. $18 \div 9 + 4 = 24 \div 3 - (?)$

37. $4 \times 2 \times 2 = 4 \times 3 + 8 - (?)$

38. $36 \div 6 \div 2 = 13 - 7 + 6 - (?)$



Measurements

39. What is 43.82m in centimetres?

40. If the race track is 400m all the way round, how many laps will I need to do to run 2km?

41. One cup can hold 250ml of water. If I wanted to fill a 2 litre jug, how many cups would I need?

42. When I was filling the jug, I didn't notice it had a tiny hole. It was losing water at a rate of 200ml an hour through the hole. Assuming it was full at the beginning, how long did it take for the jug to empty?

43. If a cake recipe required 300g of butter, how many packs of 200g butter would I need to buy to make sure I had enough to make 5 cakes?



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Angles

44. What is a 90° angle also known as?
45. What do the interior angles of a square add up to?
46. If I am facing north and I turn 180° what direction will I face?
47. If a triangle has two angles that add up to 150 degrees, what does the final angle measure?

Number awareness

Here is a list of numbers:

3 16 18 31 2 8

Using this list, write down:

48. A multiple of 6
49. A square number
50. The smallest prime number

END OF TEST

Maths Paper Sample 10+ - 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
27	28

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29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50

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Answers

1. 1056	2. One hundred and thirty one
3. 87	4. 122
5. 121	6. $\frac{3}{4}$
7. 16	8. $\frac{2}{5}$
9. $\frac{1}{2}$	10. 42
11. 4	12. 4
13. £3	14. $\frac{3}{4}$
15. 25% of 1000	16. 1,2,4,8
17. 1,2,3,4,6,12	18. 3
19. 40	20. 54
21. 8.30	22. 15.15
23. 90 minutes	24. 4.19p.m
25. 240	26. 7.4
27. £1.80	28. 3.9 km
29. £2.60	30. £18
31. 22m	32. 24m^2
33. 18m^2	34. 10
35. 3	36. 2
37. 4	38. 9
39. 4382	40. 5 laps
41. 8	42. 10 hours
43. 8	44. Right angle
45. 360°	46. South
47. 30°	48. 18
49. 16	50. 2