



11+ For You

Maths Paper 2

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 $48182 - 13281$
2. Write this number as a word 4561
3. $43925 + 12838$
4. 5361×4
5. $8392 \div 4$

Algebra

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

6. $A = 97$ $B = 17$ $C = 3$ $D = 2$ $E = 102$
What is $B \times C \times D$?
7. If $A = 45$ $B = 27$ $C = 12$ $D = 14$ $E = 8$
What is $A - D - C + E$?
8. If $A = 7$ $B = 3$ $C = 8$ $D = 20$ $E = 25$
What is $B(A+C) - E$
9. If $A = 28$ $B = 26$ $C = 3$ $D = 8$ $E = 12$
What is $D \times E \div C - (E - D)$?
10. If $A = 2$ $B = 52$ $C = 6$ $D = 8$ $E = 12$
What is $A(E + D + C)$?

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Fractions

11. What is $\frac{4}{7} + \frac{2}{8}$ in its lowest form?
12. If a ride at a theme park usually holds 60 people but is only $\frac{4}{10}$ full, how many people are on it?
13. What is $\frac{2}{5} \div \frac{1}{13}$
14. If I am a $\frac{1}{4}$ of the age of my father, how old will I be in two years if my father is 52?
15. What is $\frac{8}{11} - \frac{4}{8}$ in its lowest form?

Percentages

16. What is 38% of 512
17. If there are 640 fish in the aquarium and 45% of them live in salt water, how many of them live in fresh water?
18. A store has a sale on, and the normal price shown on the cooker is 390. If the sale is giving a 20% discount what price is the cooker?
19. If 70% of people who go to the cinema buy popcorn and in one evening 480 people go. How many people don't buy popcorn?
20. If a car is in a sale with 10% off the ticket price, and then the sales person offers me another 5% off after the first 10% is taken off, how much is the car if the ticket price reads 8280?

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Number Sequences

Work out the next number in the sequence

21. 9 9 18 27 45 (?)

22. 6 3 12 6 24 12 (?)

23. 94 88 82 76 70 64 (?)

24. 128 136 132 140 136 144 (?)

25. 12 36 18 54 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. 8 (48) 3 6 (60) 5 13 (?) 2

27. 19 (7) 5 32 (12) 8 45 (?) 11

28. 32 (8) 4 63 (21) 3 84 (?) 4

29. 18 (62) 13 41 (110) 14 18 (?) 7

30. 42 (29) 13 71 (45) 26 38 (?) 13

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Time

31. If my watch is 13 minutes fast what time is it really if my watch says 9.06?
32. If it takes me 28 minutes to get to school what time do I need to leave the house if I have to be in school by 8.45?
33. The clock in the train station stopped when it read 9.13am. If it took the engineer one hour and 17 minutes to fix it what time would it need to be set to when it was restarted?
34. How many minutes are there in 14.5 hours?
35. The train left Liverpool at 4.56pm and arrived in London at 7.29pm. How long did the journey take?

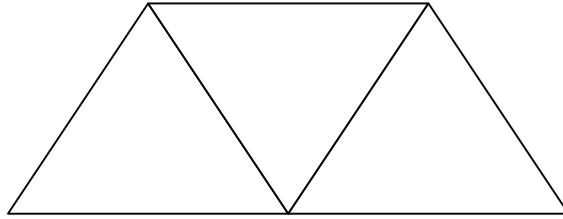
Decimals

- 36 Write 34.148 correct to two decimal places
- 37 If I get 2.40 pocket money per week how much money will I have after 17 weeks?
38. What is the mean height of my friends if we measure 1.23m 1.45m 1.31m 1.47m and 1.61m (give your answer correct to 2 decimal places)?
39. In sports day I jumped 3.45m. If the winning jump was 4.23m how far was I behind (give your answer in metres)?
40. If an ice-cream cost 1.35, how much change would I get from 4.50 if I buy three ice-creams?

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Area and Ratio



41. How many matches will it take to make five triangles?
42. How many matches will it take to make 67 triangles?
43. How many triangles can I make with 63 matches?
44. If the base of the triangle is 4cm and the height is also 4cm what area would 12 of these triangles cover ($\frac{1}{2}$ base \times height = triangle area) ?
45. How many triangles would I need to cover an area of 192cm²?

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. $4(64 \div 4) - 18 = 7 \times 8 - (?)$
50. $72 \div 2 \div 18 = 4 \times 3 - 6 - (?)$

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