



11+ For You

Maths Paper 9

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. Write 18191 as a word?
2. If I give all of my brothers £1.40 each and I have 4 brothers, how much do I give out in total?
3. Which word can also be used to mean 'share'
 - a. diminish
 - b. decipher
 - c. divide
 - d. depend
4. After getting home I found I only had £1.28 left. If I had £6.20 in the morning how much had I spent?
5. If one monkey eats 7 bananas a day how many bananas will I need to feed four monkeys for a week?

Time

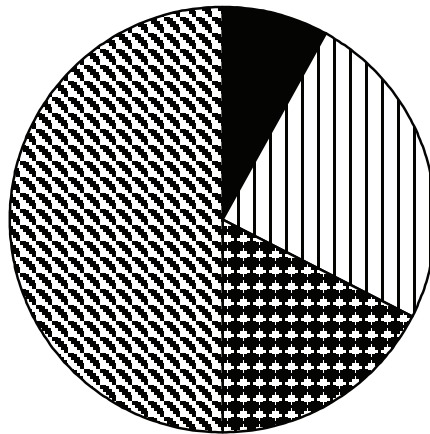
6. If my watch is 18 minutes fast what time is it really if it says 15.42 when I leave home?
7. My summer holiday was 6 weeks long. I spent 1 week in a caravan in Wales and 2 weeks abroad. How many days did I spend not in my house?
8. I wanted to see a movie with my friends. The movie lasted 1 hour 48 minutes. What time would I have to arrange to be picked up when it ended if the movie started at 20.13?
9. Each day I spend 40 minutes learning Japanese. However, my friend says they spend double that learning Japanese. How long do they spend learning Japanese each week?
10. My watch said 6.15 when it stopped today. It is now 17.28. How long has it been stopped for

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Graph

Using the graph below that shows the how many ice-creams were sold in one day.



Strawberry



Vanilla



Banana



Coffee

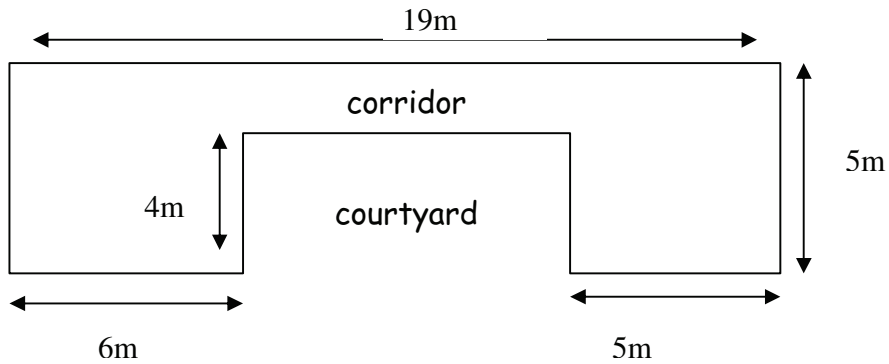
11. Which ice-cream was least popular?
12. Which ice-cream was the most popular?.
13. If there were 160 ice-creams sold all together estimate how many vanilla flavour ice-creams were sold.
14. Tomorrow banana ice-cream will be sold at half-price. What would you expect to happen to the area showing banana ice-cream?
15. If banana ice-cream is going to be 30p tomorrow estimate how much was spent on banana ice-cream today?

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Area & Measurement (not drawn to scale)

Plan of a new villa in Spain



16. How much area does the courtyard cover?
17. How wide is the corridor?
18. What is the total area covered by the actual building?
19. What is the perimeter of the villa?
20. How many tiles will be needed for the floor of the courtyard if each tile is 10cm by 10cm?

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Number Sequences

21. 15 8 20 13 25 18 (?)

22. 98 89 81 74 68 (?)

23. 4 8 16 32 64 128 (?)

24. 65 51 58 44 51 (?)

25. 2 1 3 4 7 11 18 (?)

Add the missing symbol

(X / + -)

26. 3 (?) 4 + 7 = 19

27. 28 / 2 + 7 = 36 / 2 (?) 3

28. 48 (?) 6 x 7 = 50 + 6

29. 7 x 3 (?) 2 + 6 = 48

30. 9 (?) 3 (?) 6 = 21

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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. 14 (3) 11 | 28 (12) 16 | 72 (?) 42 |
| 32. 7 (63) 9 | 12 (132) 11 | 8 (?) 7 |
| 33. 5 (12) 2 | 12 (39) 3 | 8 (?) 11 |
| 34. 15 (22) 4 | 27 (28) 13 | 17 (?) 9 |
| 35. 1 (5) 6 | 4 (0) 16 | 3 (?) 21 |

Decimals

36. What is the difference in temperature between today and yesterday if today it is 28.4 degrees and yesterday it was 25.7 degrees?
37. I buy a magazine at 80p, a drink for 40p, a cinema ticket for £4.40 and some popcorn for £2.80. How much do I spend altogether in pounds & pence?
38. If five people in my class are measured and their heights are 1.23cm, 1.34cm, 1.45cm, 1.36cm and 1.56cm what is the average height?
39. If I walk 3.8km on the first day, 4.9km on the second, 5.6km on the third and 4.8km on the final day, how many metres will I have walked in total?
40. If a baby caterpillar grows 1.5mm each week, how long will it take to reach the adult size of 9mm?

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Ratio

41. If the ration of amount of salami to slices on a pizza is 4:16, how much salami will I need if I make a giant pizza with 64 slices?
42. If the milkshake is made from 4 parts milk to 2 parts flavouring and the total size of the milkshake is 420ml how much milk do I need?
43. If I am making a scale model of a plane and it says the model is 1:1500 how big is the actual plane if my model is 15cm long?
44. If there are 48 people on a school trip and because it is a very dangerous trip the staff to pupil ratio is 1:5, how many people on that trip are staff?
45. If there are 63 people coming to a party and the ratio of vegetarians to no-vegetarians is 1 to 8, and 1 vegetarian will have 4 sandwiches, how many vegetarian sandwiches do I need to prepare?

Equations

46. $16 \times 2 + 17 = 4 \times 3 \times 2 + (?)$
47. $27 + 15 - 8 = 7 \times 3 + 3 + (?)$
48. $8 \times 7 + (4 \times 2) = 78 - (3 \times 8) + (?)$
49. $17 + 14 - (3 \times 2) = 3 \times 3 \times 4 - (?)$
50. $2(7 \times 2) - 12 = 2(5 \times 6) - (?)$

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