

FOBISIA Mental Maths Test

1. What is 5 cubed?
2. Write $\frac{1}{3}$ as a decimal
3. If 40% is 240, what is 100%?
4. The net of a tetrahedron is made from triangles. How many triangles are needed?
5. Multiply minus six by minus two.
6. Jenny and Mark share some money in the ratio two to three. Jenny's share is one hundred and ten pounds. How much is Mark's share?
7. What is one third of three-quarters of one hundred?
8. I'm thinking of a number. I call it n . I square my number then add four. Write an expression to show the result.
9. Twenty-one out of thirty-six pupils said they watched Top of the Pops. What angle would show this on a pie chart?
10. Write a multiple of three that is bigger than one hundred.
11. What percentage of fifty pounds is thirty-five pounds?
12. On average, the driest place on earth gets only nought point five millimetres of rain every year. In total, how much rain would it expect to get in twenty years?
13. To the nearest whole number, what is the square root of eighty-three point nine?
14. It takes me one and a half minutes to swim one length of the pool. How many lengths can I swim in fifteen minutes?
15. Tariq won one hundred pounds in a maths competition. He gave two-fifths of his prize money to charity. How much of his prize money, in pounds, did he have left?
16. What is three point nine divided by two?
17. The instructions for a fruit drink say to mix one part blackcurrant juice with four parts water. I want to make one litre of this fruit drink. How much blackcurrant juice should I use? Give your answer in millilitres.
18. What is half of two-thirds?
19. What is three-fifths of forty pounds?
20. Using three as an approximation for π , what is the area of a circle with radius five centimetres?

21. Five percent of a number is 8. What is the number?
22. A fair spinner has eight equal sections with a number on each section. Five of them are even numbers. Three are odd numbers. What is the probability that I spin an even number?
23. What is the volume of a cuboid measuring five centimetres by six centimetres by seven centimetres?
24. What is the remainder when you divide three hundred by twenty-nine?
25. There are fourteen girls and thirteen boys in a class. What is the probability that a pupil chosen at random will be a girl?
26. The mean of two numbers is 8. One of the numbers is two. What is the other number?
27. How many edges are there on a square based pyramid?
28. Multiply 8.7 by 2
29. A bat flies at an average speed of 35 kilometres an hour. At this speed, how far will it fly in 12 minutes?
30. What number should you add to minus three to get the answer five?
31. What is the sum of the angles in a rhombus?
32. If $4x + 3 = 23$, what is the value of x ?
33. I have a fair eight sided dice numbered 12 to 19. What is the probability that I will throw a prime number?
34. What must I multiply n squared by to get n cubed?