

Math Riddles

Play interesting math riddles for kids and adults. Their answers and a printable PDF are both available for you.

- 1 When is 1500 plus 20 and 1600 minus 40 the same thing?
- 2 What 3 positive numbers give the same result when multiplied and added together?
- 3 A bat and a ball cost \$1.10. The bat costs one dollar more than the ball. How much does the ball cost?
- 4 When I take five and add six, I get eleven, but when I take six and add seven, I get one. What am I?
- 5 There are 12 kids in a classroom. 6 kids are wearing socks and 4 are wearing shoes. 3 kids are wearing both. How many are bare feet?
- 6 Divide 20 by half and add 30, what do you get?
- 7 If Mr. Flynn is 90 centimeters plus half his height, how tall is he?
- 8 How can you give someone \$83 using exactly 7 bills, without using any one dollar bills?
- 9 What number do you get when you multiply all of the numbers on a telephone's number pad?
- 10 There are two fathers and two sons. They walk into a candy store and each buys a candy bar for 50 cents. The total for all of the candy bars was \$1.50. How is that possible?
- 11 Joe has ten coins totaling \$1.19. From these coins, he cannot make exact change for a dollar, half-dollar, quarter, dime, or nickel. What are the coins?

- 12 What do mathematics teachers like to eat?
- 13 Dean Sam and Castiel are three brothers. Interestingly their current age is prime. What's more interesting that difference between their ages is also prime. How old are they?
- 14 In a lake, there is a patch of lily pads. Every day, the patch doubles in size. If it takes 48 days for the patch to cover the entire lake, how long would it take for the patch to cover half the lake?
- 15 If you toss a coin 10 times and it lands heads up every time, what are the chances it will land heads up if you toss it again?
- 16 What is the value of $\frac{1}{2}$ of $\frac{2}{3}$ of $\frac{3}{4}$ of $\frac{4}{5}$ of $\frac{5}{6}$ of $\frac{6}{7}$ of $\frac{7}{8}$ of $\frac{8}{9}$ of $\frac{9}{10}$ of 1000?
- 17 How many days are there in 4 years?
- 18 The combined age of Jack and John is 49. Jack is twice as old, as John was when Jack was as old as John is now. How old are the brothers?
- 19 If you go to the movies and you're paying, is it cheaper to take one friend to the movies twice, or two friends to the movies at the same time?
- 20 Three times what number is no larger than two times that same number?
- 21 How can you add eight 8's to get the number 1000?
- 22 You have 14 brown socks, 14 blue socks and 14 black socks in your sock drawer. How many socks must you remove (without looking to be sure) to have a matched pair?
- 23 Mr. Smith has 4 daughters. Each of his daughters has a brother. How many children does Mr. Smith have?

- 24 Use the numbers 2, 3, 4 and 5 and the symbols + and = to make a true equation.
- 25 There are 25 red balls, 47 green balls and 3 blue balls in a basket. There is a blind man. What is the minimum number of balls that the blind man has to pick to make sure that there are at least 2 balls of different colors?
- 26 Place three matches on a table. Tell a friend to add two more matches to make eight.
- 27 One brick is one kilogram and half a brick heavy. What is the weight of one brick?
- 28 What did one math book say to another?
- 29 When my father was 31 I was 8. Now he is twice as old as me. How old am I?
- 30 My daughter has many sisters. She has as many sisters as she has brothers. Each of her brothers has twice as many sisters as brothers. How many sons and daughters do I have?
- 31 In a bicycle race, the man who came two places in front of the last man finished one ahead of the man who came fifth. How many contestants were there?
- 32 If you're 8 feet away from a door and with each move you advance half the distance to the door. How many moves will it take to reach the door.
- 33 An apple is 40 cents, a banana is 60 cents and a grapefruit is 80 cents. How much is a pear?
- 34 I am four times as old as my daughter. In 20 years time I shall be twice as old as her. How old are we now?
- 35 If two hours ago, it was as long after one o'clock in the afternoon as it was before one o'clock in the morning, what time would it be now?

- 36 Sally is 54 years old and her mother is 80, how many years ago was Sally's mother three times her age?
- 37 If it is two hours later, then it will take half as much time till it's midnight as it would be if it were an hour later. What time is it?
- 38 Four years ago, Alex was twice as old as Jake. Four years from now, Jake will be $\frac{3}{4}$ of Alex's age. How old is Alex?
- 39 Mom and dad have four daughters, and each daughter has one brother. How many people are in the family?
- 40 What is half of two plus two?
- 41 In two years I know, I'll be twice as old as five years ago, said Tom. How old is Tom?
- 42 How many 9's are there between 1 and 100?
- 43 There is a three digit number. The second digit is four times as big as the third digit, while the first digit is three less than the second digit. What is the number?
- 44 Add me to myself and multiply by 4. Divide me by 8 and you will have me once more. What number am I?
- 45 I am a number with a couple of friends, quarter a dozen, and you'll find me again. What am I?

Math Riddles Answers

1. military time
2. 1, 2 and 3
3. The ball costs 5c. Not 10c. One dollar more than 10c is \$1.10, \$1.10 + 10c is \$1.20 One dollar more than 5c is \$1.05. The sum of which is \$1.10.
4. clock
5. 5 kids are bare feet.
6. 70. $20 \div \frac{1}{2} + 30 = 70$
7. 180 centimeters.
8. Give them 1 fifty dollar bill, 1 twenty dollar bill, 1 five dollar bill and 4 two dollar bills.
9. Zero. Anything multiplied by 0 will equal 0.
10. There was a grandfather, a father and a son.
11. A half-dollar, a quarter, four dimes, and four pennies.
12. Pi
13. Sam: 2; Dean: 5; Castiel: 7. Age diff $7 - 2 = '5'$ is prime; $7 - 5 = '2'$ is prime; $5 - 2 = '3'$ is prime.
14. The patch doubles in size every day and so on the 47th day the patch will be half the size it is on the 48th day.
15. There is a 50/50 chance of each toss being either heads or tails. The previous toss does not impact the next toss.
16. 100.
17. $(365 \times 4) + 1 = 1461$. Because one of the years is a leap year.
18. Jack is 28 and John is 21.
19. It's cheaper to take two friends at the same time. In this case, you would only be buying three tickets, whereas if you take the same friend twice you are buying four tickets.
20. 0
21. $888 + 88 + 8 + 8 + 8 = 1000$
22. four
23. five
24. $2 + 5 = 3 + 4$
25. 48 balls. There is a small chance he may pick up 47 green balls in a row.
26. Add two matches to make a roman numeral eight.
27. One brick weighs 2 kilograms.
28. I have so many problems.
29. I must be 23 if my father is twice as old as me.
30. Four daughters and three sons. Each daughter has 3 sisters and 3 brothers, and each brother has 2 brothers and 4 sisters.
31. There were 6 contestants. The man came in 4th place.
32. You will never reach the door, it will always be half the distance, no matter how small!.
33. 40 cents. The price of each fruit is calculated by multiplying the number of vowels by 20c.
34. I am 40 and my daughter is 10.
35. nine
36. forty-one
37. nine
38. 12
39. seven
40. three
41. 12
42. 20
43. 141
44. any number
45. three