



1. If the sum of the first three positive prime numbers is equal to one-third of x , what does x equal?
2. If you begin reading your math book at 4:38pm and finish reading your math book at 6:12pm, for how many minutes were you reading?
3. What is the area of a triangle whose base has a length of four and whose height is twice the length of the base?
4. What is the greatest positive three-digit factor of two-thousand ten?
5. What is the probability of **not** selecting a blue marble from a bag of six red marbles, two blue marbles, and twelve yellow marbles? Express your answer as a percent.

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6. Start with two-hundred four. Divide by two. Add twenty-three. Then take the cube root. What is the final number?
7. What percentage is represented by the fraction one-twentieth?
8. What is the probability of rolling an even number on three straight rolls of a fair, six-sided die? Express your answer as a reduced fraction.
9. If three x plus twelve is equal to forty-eight, what is x equal to?
10. What is the diameter of a circle whose area is one-hundred forty-four pi?

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11. If Mary has twenty-five cents, John has twice as much as Mary, and Chris has three times as much as Mary, how much money, in cents, do they have altogether?
12. Start with the smallest positive prime number. Square that number, then square the result. Finally, square your new result one last time. What is the resulting number?
13. If you could write a short story in three days, how many complete short stories could you write in five weeks?
14. How many lines of reflectional symmetry does an equilateral triangle have?
15. Twenty percent of what number is thirty-four?

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16. Three raised to what power is equal to eighty-one?
17. If the perimeter of a rectangle is eighty-two units, and the length of the rectangle is twelve units, what is the width of the rectangle?
18. What is the sum of the first five positive perfect squares?
19. Start with seven. Cube it. Add half of fifty-four. Finally, divide by ten. What is the final number?
20. If you randomly select two numbers, with replacement, from the numbers one to five, what is the probability that both numbers will be even? Express your answer as a percent.