

Santa Ana Math Club

October 23rd, 2010

Name:

School:

Grade:

1. When x is divided by 15, the quotient is 5. Find x .
2. My 5th birthday was 3 years ago. How old am I now?
3. What number is 5 less than 7 more than 10?
4. If three-fourths of a number is the number minus twelve, what is the number?
5. How many 0's are needed to write the numeral for *ten thousand*?
6. I have \$0.20 in nickels and \$0.90 in dimes. How many coins do I have total?
7. Which number is the largest? 1.513, 1.524, 1.06, 1.507
8. There are 6500 mL of water in a bucket. I pour out 3 L of it. Then I pour out another 25 mL from the bucket. How many milliliters (mL) of water are left in the bucket? (1000 mL = 1L)
9. A certain number is greater than 10 but smaller than 40. The number is a factor of 56 but not a multiple of 4. Find the number.
10. David, Shawn, and Jordan have a total savings of \$4800. If David saves \$480 more than Jordan and Shawn saves \$330 less than David, how much does Shawn save?

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11. This year Clarissa is 9 years old and her sister is 21 years old. How many years ago was Clarissa's sister three times her age?

12. On one side of a straight long road, there are many streetlights, equidistant from one another. The distance between the 1st street light and the 5th street light is 200 yards. Find the distance between the 1st street light and the 20th street light.

13. Perry has 78 fewer stamps than Sam. Bella has 59 more stamps than the total number of stamps Perry and Sam have. Bella has 253 more stamps than Perry. How many stamps does Bella have?

14. The sum of $\frac{1}{3}$ and $\frac{1}{2}$ is half of the fraction I am thinking of. What is the fraction? Give the answer as an improper fraction in its simplest form.

15. What year in the 21st century is a perfect square?

16. A grocer sold a carton of apples to some customers. The first customer tasted one apple and bought half of the remaining apples. The second and third customers did the same. The fourth customer also tasted one apple and bought the remaining 23 apples. How many apples were there in the carton at first?

17. Jerry bought 7 more fifty-cent stamps than he bought twenty-cent stamps. He paid \$9.10 for all the stamps. How many stamps did he buy?

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18. A worm is at the bottom of a jar that is 30 cm deep. Each day the worm crawls up 3 cm, but it slides down 2 cm at night. At this rate, how many days will it take the worm to crawl out of the jar?
19. In a certain village, half of the people are men and the other half are women. Two-thirds of the men are married, while three-fifths of the women are. What fraction of the population in the village is married?
20. A kite is in the shape of a rhombus and has diagonals with lengths 48 cm and 24 cm. What is the area of the kite in square centimeters?
21. How many of the numbers 13, 23, 33, 43, 53, 63, 73 are prime?
22. The perimeter of a certain square is equal to the perimeter of an equilateral triangle that has a side length of 12. What is the *area* of the square?
23. Last weekend, I watched three science fiction movies, four mystery movies, and one adventure movie. What is the fraction of the movies I watched over the weekend were science fiction?
24. Evaluate the expression: $2011 \times 2010 - 2010 \times 2009$. (What number does this equal?)
25. How many whole numbers between 1 and 100 have 5 *or* 9 as their units digit?

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26. If the 1st day of a certain month is a Wednesday, what day of the week is the 26th day of the same month?

27. How many factors does the number 2010 have?

28. When a certain number is divided by 3, 4, 5, or 6, there is always a remainder of 1 in each case. However, the number is exactly divisible by 7. What is the smallest possible value for this number?

29. The local high school needs a new field. The new field would be 100 feet long and 180 feet wide. If the high school can buy 9 square feet of land for \$27, how much will it cost to buy the entire field?

30. Under which letter would the number 1234 appear if this pattern were continued?

a b c d e f g

1 2 3 4 5 6 7

14 13 12 11 10 9 8

15 16 ...