

2010 Rocket City Junior Math Mania  
Individual Test – 4th Grade

1. Evaluate:  $113 - 57$
2. If Anna drives at a speed of 40 miles per hour for six hours, how many miles will she have driven?
3. What is the perimeter, in meters, of a rectangle with sides measuring 6 m and 14 m?
4. When a single card is drawn from a standard 52-card deck, what is the probability that it is a red ten?
5. What is the circumference, in meters, of a circle with a radius measuring 23 m?
6. Evaluate:  $96 \div 4$
7. I have 12 coins (pennies, nickels, and dimes) in my piggy bank worth 59 cents. How many pennies do I have?
8. What is the word describing a triangle with three congruent sides? (equilateral, scalene, isosceles)
9. How many positive integers are factors of 80?
10. What is the mode of the data set  $\{5, 3, 9, 2, 3, 2, 7, 8, 4, 2, 5, 9\}$ ?
11. Evaluate:  $43^2 - 37^2$
12. If five zebras can be exchanged for either seven yaks or four wombats, how many yaks could be exchanged for thirty-two wombats?
13. What is the measure, in degrees, of an interior angle in a regular octagon?
14. If  $f(x) = 2x - 3$ , find  $f(7)$ .
15. How many prime numbers are there between 20 and 50?
16. Evaluate **as a decimal**:  $2.3 \times 19$
17. When my favorite number is divided by three and this result is then increased by seven, the final result is nineteen. What is my favorite number?
18. What is the perimeter, in meters, of a regular pentagon with sides measuring 9 m each?
19. When I asked the 38 people at my party what they wanted on their pizza, 22 said olives and 29 said mushrooms. If 4 people wanted neither of these, how many wanted both?
20. If 40% of a number is 18, what is the number?
21. What is the sum of twenty-nine and eighteen?

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22. What is the area, in square meters, of a right triangle with legs measuring 8 m and 9 m?
23. What is the sum of the positive odd numbers less than 25?
24. Round the number 123.456 to the nearest tenth.
25. When a positive, two-digit number is tripled and this result is reduced by two, the result is the same number except that its digits have been reversed. What was the original number?
26. An angle is supplementary to  $140^\circ$ . What is the measure, in degrees, of the angle's complement?
27. What is the median of the data set {7, 3, 19, 4, 9, 11, 8, 15, 1}?
28. Find the value of  $x$  if  $2(x + 4) = 18$ .
29. If there are 8 blue marbles, 3 yellow marbles, 11 white marbles, and 4 red marbles, what is the probability of picking a white marble?
30. What is the area of rectangle with length 12 and width 8.