2012 Rocket City Junior Math Mania
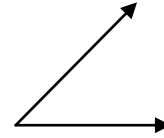## Individual Test – 4th Grade

1. Evaluate: $37 + 44$

2. Does the angle to the right appear to be acute, right, obtuse or straight?

3. A circle has a radius of 14 cm. What is the diameter of the circle, in centimeters?

4. Evaluate: $7\overline{)259}$

5. 10 whole pizzas plus 11 half pizzas is the same as 13 whole pizzas and how many half pizzas?

6. Evaluate: $\dfrac{1}{4} + \dfrac{1}{6}$

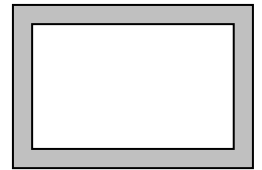7. If x + 9 = 22, then what is the value of x?

8. In how many different ways can you and two friends stand in line for a ride?

9. A secret number is multiplied by 4. Then 7 is added. The result is 23. What is the secret number?

10. What is the next term of the sequence 10, 14, 18, 22, __?

11. The area of a square is 64. What is the perimeter of the square?

12. A rectangular picture frame is 10 cm by 12 cm on the outside. The picture that fits inside is 8 cm by 10 cm. What is the area of just the picture frame?

13. In a certain class, 7 students said they had only a Batman toy, 9 students said they had only a Spiderman toy, and 6 students said they had both. What is the total number of Batman and Spiderman toys owned by students in this classroom?

14. What is the sixth term of the geometric sequence with first term 5 and common ratio 2? The sequence begins 5, 10, 20, ...
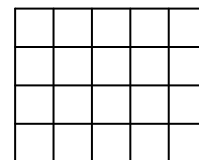
15. If my piggy bank contains only dimes, nickels and pennies, and has nine coins worth a total of 48 cents, how many pennies are in the piggy bank?

16. How many minutes are in three-and-one-half hours?

17. What is the sum of the number of days in a week, the number of edges on a cube, and the number of seconds in a minute?

18. What is the mean (average) of the set {3, 11, 18, 8}?

19. How many squares of any size are in the array of unit squares to the right?

20. When Mr. McHugh's class lines up for recess, Katie stands immediately behind Mary, Gus is ahead of Catherine, and a Micah is behind Katie. If Katie is behind Catherine, write the name of the first person in line followed by the name of the last person in line.

21. Jim has 99 cents using only quarters, dimes, nickels, and pennies. What is the smallest number of coins he could have?

22. When a single card is drawn from a standard 52-card deck, what is the probability that it is a 6 of diamonds?

23. Round the number 1234.5 to the nearest ten.

24. How many of the numbers in the set {313, 231, 621, 794, 918, 114} are divisible by 3?

25. Fill in the blank with <, =, or >.   44.41 ___ 44.07

26. What is the sum of the first 10 positive odd numbers? {1, 3, 5, …}

27. How many hours is it from 5:00 a.m. to 9:00 p.m.

28. When a six-sided die is rolled, what is the probability that the number on top is at least a 5?

29. A day of the week is chosen randomly. What is the probability that the name of the day of the week has 6 letters?

30. What is 131 times 22?