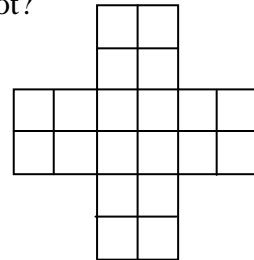# 2011 RC Jr. Math Mania
Individual Test – 4th Grade

1. Evaluate: $12\overline{)156}$

2. How many vertices (corners) does a cube have?

3. What is the area, in square meters, of a rectangle with sides measuring 12 m and 8 m?

4. What is the mode of these numbers: {1, 3, 5, 1, 7, 5, 2, 7, 5, 6, 3, 5, 7}?

5. What is the perimeter, in feet, of a regular hexagon with sides measuring 13 ft?

6. In how many unique ways can the letters in the word "MOON" be arranged?

7. Round the number 9876.5432 to the nearest hundred.

8. What is the sum of three thousand twenty-four and one hundred thirty-seven?

9. If a football field is 100 yards long, there are three feet in a yard, and 12 inches in a foot, then how many feet are in 1 ½ football fields?

10. How many of these numbers are even? 12, 21, 35, 49, 57, 63, 79, 88, 96

11. How many diagonals can be drawn in a regular hexagon?

12. What is the sum of the positive integers from 15 to 25?

13. When a certain number is decreased by 15 and this result is divided by four, the answer is 31. What is this special number?

14. What is the area of this figure if each box represent one square foot?
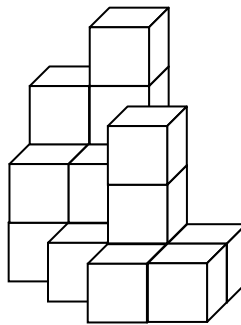
15. How many squares of any size are shown in the figure from number 14?

16. If Tyler has a fish tank with 4 red fish, 3 blue fish, and 6 yellow fish, how many of his fish are not red or blue?

17. Four years ago, Wesley was 12 years old. How old will Wesley be 3 years from now?

18. How many dozens are in six pairs?

19. My piggy bank contains only dimes and quarters, and contains 32 coins worth a total of $4.25. How many dimes are in the piggy bank?

20. Josh is selling raffle tickets for a school fundraiser. The number of tickets sold each day and the cumulative totals are shown. Find the value of a + b + c.

Day	Tickets	Cumulative Total
Monday	13	13
Tuesday	a	32
Wednesday	17	b
Thursday	c	54

21. John and Patrick together have 16 footballs. If John has four more footballs than Patrick, how many footballs does John have?

22. James' school day starts at 8:00 am. He has seven classes lasting 45 minutes each, one class lasting 30 minutes, homeroom lasting 10 minutes, and 30 minutes for lunch. If he has 5 minutes between each activity, what time does he get out of school?

23. What at is ¾ of 100 plus ½ of 54 minus 1/3 of 66?

24. If I count by fives from 5 to 1,000, starting at 5, what is the 34th number I say?

25. What is $7 \times 3 \times 2 \times 10 \times 0 \times 8$?

26. Find x if: 55+55+55 = 5+5+5+ x.

27. Mr. Gray teaches 2 classes in the morning: Math Team and Honors Geometry. If his math team class has 25 students, there are 30 kids in his Honors Geometry class, and ten students take both of these classes, how many students are in his Math Team class but not his Honors Geometry class?

28. How many blocks are needed to make the stack shown below, if they are all the same size?

29. Kevin bought a toy space shuttle for $15. He then sold it to Preston for $25. He bought it back from Preston for $20. Finally, he sold it to Daniel for $30. How much money did he make in all?

30. Billy's height increases by 6 inches each year. Bob's height increases by half of that amount each year. If Billy and Bob's heights were the same 3 years ago, how much taller than Bob will Billy be exactly two years from today?