Online Math League
2009 – 2010 Third Grade Contest #2

Student Name _____ **Date** _____

Rules: You have 30 minutes to complete this test. You must work by yourself and you may not use a calculator. Each question has just one correct answer. Do your best!

1. What number is 13 less than 45?

A. 23 B. 28 C. 32 D. 33 E. 42

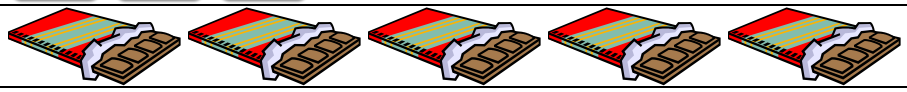
2. What number comes first in the following pattern?

____, 30, 40, 48, 54, 58, 60

A. 14 B. 18 C. 20 D. 25 E. 28

3. Which of the following multiplication problems has the smallest answer?

A. 2 x 11 B. 2 x 10 C. 3 x 6 D. 3 x 5 E. 4 x 4

Candy Corn	
Chocolate Bars	
Candy Canes	

<u>Key: Each picture = 3 items sold</u>

The chart above shows how many of each type of candy were sold yesterday at a local candy store. Use this chart to answer questions #4, #5 and #6.

4. There was less candy corn sold than candy canes. How much less?

A. 15 pieces B. 12 pieces C. 9 pieces
D. 6 pieces E. 3 pieces

5. How many candy canes were sold yesterday?

A. 8 B. 9 C. 15 D. 16 E. 24

6. Each chocolate bar is sold for 50¢. How much did the store sell in chocolate bars yesterday?

A. $6.00 B. $6.50 C. $7.00 D. $7.50 E. $8.00

7. Jodi decided that she would exercise, or workout, every other day. Her first workout was on Monday. On what day was her fifth workout?
A. Friday B. Saturday C. Sunday D. Monday E. Tuesday

8. There are 12 inches in a foot and three feet in a yard. How many inches are in a yard?
A. 12 B. 24 C. 36 D. 30 E. 18

9. Bill bought a football for $5.80 and a tee for $3.25. If he paid for these items with a $10 bill, how much change should he receive?
A. $0.95 B. $6.75 C. $4.20 D. $1.95 E. $0.85

10. David ran around a track four times. He ran his first lap in 1 minute, 35 seconds. Each lap he ran was 15 seconds slower than the lap before it. How long did it take him to run the fourth lap?
A. 2 minutes, 20 seconds B. 2 minutes, 15 seconds C. 2 minutes, 10 seconds
D. 2 minutes, 5 seconds E. 2 minutes, 0 seconds

11. Dustin, Roger, and Leslie ordered two pizzas to share for dinner. The pizzas were each cut into eight pieces. If each person ate the same number of pieces, how many pieces of pizza were left?
A. 0 B. 1 C. 2 D. 3 E. 5

12. What number belongs in the box in the following problem?

$4 \times 4 = \square \times 2$

A. 4 B. 6 C. 8 D. 12 E. 16

13. Mudville Elementary School has students in second, third, fourth and fifth grades. There are a total of 392 students in the school. Of these, 104 are in second grade, 101 are in third grade, and 94 are in fourth grade. How many of the students at Mudville Elementary School are in fifth grade?
A. 92 B. 93 C. 94 D. 103 E. 102

14. Sara opened her piggy bank and found that she has three quarters, five dimes, two nickels, and 12 pennies. How much money does Sara have?
A. $1.35 B. $1.37 C. $1.45 D. $1.25 E. $1.47

15. Ella had 24 marbles. She then traded five marbles to Todd for one of his. Later, she decided to give all of her marbles to her two younger brothers. If she gives the same number of marbles to each of her two brothers, how many marbles will each brother get?
A. 8 B. 9 C. 10 D. 11 E. 12

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Answer Key, 2009 – 2010 Third Grade Contest #2

Teacher Tip: For all third grade Online Math League contests, if a student has trouble reading something, please know that you may provide the difficult word(s) to the child. Also, if a student completely misunderstands how to take this test (such as by choosing multiple answers for the same question), you may intervene. Actual mathematical hints or suggestions, however, may not be shared with the students during the competition.

1. **C** (The first question on every OML test involves a topic the students should be comfortable with, as we want to begin each test on a positive note. In this case, we've chosen a straightforward subtraction problem.)
2. **B** (Because the missing number is the first number in the sequence, this problem can be difficult for third graders. The numbers are increasing by 12, then 10, then 8, 6, 4, and 2, so the first number would be 30 – 12, or 18.)
3. **D**
4. **A** (There were 24 candy canes sold – 9 candy corn = 15 more candy canes sold than candy corn.)
5. **E** (There are eight candy canes pictured, and each one represents three candy canes sold. 8 x 3 = 24 candy canes sold.)
6. **D** (Five candy bars are shown in the graph. Since each one represents three candy bars sold, this means that 15 candy bars were sold. 15 x 50¢ = $7.50.)
7. **E**
8. **C**
9. **A** ($5.80 + $3.25 = $9.05, and $10.00 - $9.05 = $0.95)
10. **A**
11. **B**
12. **C** (Sixteen is a common wrong answer here, as students often disregard the part of the equation after the missing number. We start using algebra-style questions like this at young grades because it forces students to think differently about topics they are otherwise familiar with.)
13. **B**
14. **E**
15. **C**