

Online Math League
2009 – 2010 Second Grade Contest #1

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. Which of these addition problems has the largest answer?

- A. $5 + 4$ B. $8 + 3$ C. $8 + 2$ D. $4 + 5$ E. $6 + 3$

2. Sara is outside playing. She wants to go inside at 7:30 p.m. to watch her favorite TV show. If it is 7:10 p.m. right now, for how many more minutes can Sara stay outside and play?

- A. 1 B. 5 C. 10 D. 20 E. 100

3. Jon has 28 stuffed animals. If he decides to give eight stuffed animals to his brother, how many stuffed animals will Jon have left?

- A. 12 B. 20 C. 21 D. 22 E. 34

4. Marie goes to the store to buy some candy. She pulls her money out of her pocket and sees that she has two quarters, one dime, and six pennies. How much money does Marie have?

- A. 46¢ B. 56¢ C. 61¢ D. 66¢ E. 76¢

5. What number comes next in the following pattern?

3, 7, 11, 15, 19, ____

- A. 23 B. 24 C. 25 D. 26 E. 27

6. Mark took a 15 question test. He got every third question wrong. How many questions did Mark get correct?

- A. 10 B. 12 C. 9 D. 6 E. 15

7. Which one of these equations is true?

- A. $97 > 121$ B. $28 < 26$ C. $44 > 51$ D. $100 < 99$ E. $7 < 82$

8. Brian has a baseball game every Saturday. Last week, he went to a friend's house three days before his baseball game. On what day did Brian go to his friend's house?

- A. Monday B. Tuesday C. Wednesday
D. Thursday E. Friday

9. The local town is having a basketball tournament. If there are three players on each team, and there are four teams in the tournament, how many players are in the tournament all together?

- A. 20 B. 16 C. 12 D. 10 E. 8

10. One day, Kate, Jan, and Scott play board games all day. If Kate wins 18 games, Jan wins 8 games, and Scott wins 15 games, how many board games did the three children play all together? (There are no ties in any of these games.)

- A. 26 B. 32 C. 33 D. 41 E. 113

11. I am a two-dimensional shape that has four sides. I always have two pairs of sides that are the same length, but all four sides don't need to be the same length. My opposite sides always go in the same direction. I have four right angles. What shape am I?

- A. A triangle B. A circle C. A square
D. A rectangle E. A hexagon

12. If there are 26 children and they want to split into two equal teams to play a game, how many children will be on each team?

- A. 11 B. 12 C. 13 D. 14 E. 15

13. What number belongs in the box in the following subtraction problem?

$$\square - 4 = 3$$

- A. 1 B. 2 C. 3 D. 6 E. 7

14. What is the correct way to write the number 839?

- A. Eight hundred thirty nine B. Eight hundred nine
C. Eight thousand three hundred nine D. Eight hundred three
E. Eight thousand ninety three

15. In 2009, December 1st happens to be a Tuesday. What day of the week will it be on December 25th, 2009? (Hint: try drawing a calendar on scrap paper if you need to.)

- A. Monday B. Tuesday C. Wednesday D. Thursday E. Friday

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Answer Key, 2009 – 2010 Second Grade Contest #1

Teacher Tip: For all second 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, you may intervene. Actual mathematical hints or suggestions, however, may not be shared with the students during the competition.

1. **B** (The first question on every OML test involves a topic the students should be very comfortable with, as we want to begin each test on a positive note.)

2. **D**

3. **B**

4. **D**

5. **A**

6. **A**

7. **E** (This tests to see if (1) students can compare two-digit and three-digit numbers and (2) whether students are able to correctly interpret greater than and less than symbols.)

8. **C**

9. **C**

10. **D** (This looks like a simple addition problem: $18 + 8 + 15 = 41$. But many students struggle with this problem because, in trying to solve it using carrying, they either (A) line up the one-digit number incorrectly and get an answer of 113, or (B) add up the ones column and get 21, then erroneously carry the one because they're not familiar with carrying anything else, and they end up with an answer of 32.)

11. **D**

12. **C**

13. **E** (One is a very common wrong answer here, as students often incorrectly read the equation from right to left as “Three equals four minus what?”. 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. This could spark a great discussion topic in your classroom. Can you students solve equations like $4 + 4 = \underline{\quad} + 3$, or do they all just think the missing number in that equation is eight?)

14. **A**

15. **E** (The extremely capable student might be able to figure out that since there are seven days in a week, if December 1st is a Tuesday, December 8th ($1 + 7$) will be a Tuesday, and so on. Other students could draw a calendar or a long list of the days of December.)