

Due Date: Mon Mar 28th, 2016
(50 points total; 10 pts deducted if late)

First & Last Name: _____

Homeroom Teacher: _____

Math Superstars Jr.

Oak Grove Grade 2 – Session 6



5 points for each correct answer, unless specified otherwise; 1 point if answer incorrect, but work shown:

1. Lisa opened a book. The sum of the 2 page numbers she saw was 69. What pages is she on? **Answer: pages 34 and 35. Start by trial and error around page $69 \div 2 \approx 34$. {5 points if give correct answer, 3 points if only give 34 or 35; otherwise, 1 point for trying}**

2. What is the smallest number that can be made using all of the following digits only once: 5, 3, 9, 1? **Answer: 1,359. Assign the smallest digit to the highest possible place value and so forth. {5 points if give correct answer; 2 points if 3,159 or 5,139 or 5,319; otherwise, 1 point for trying}**

3. There are 3 songs on a certain CD; the 1st song is 6 minutes and 25 seconds, the second song is 12 minutes and 25 seconds, and the 3rd song is 10 minutes and 13 seconds; how long does it take to play the entire CD? **Answer: 29 minutes and 3 seconds. Sum the minutes first: $6 + 12 + 10 = 28$ minutes then the seconds = $25 + 25 + 13 = 63$ seconds. Adding the minutes and the seconds we get 28 minutes and 63 seconds or 29 minutes and 3 seconds. {5 points if give correct answer; otherwise, 1 point for trying}**

4. One year in March, there were 5 Mondays; which day of the week below could not appear in this month also 5 times? (10 points)

a. Saturday b. Sunday c. Tuesday d. Thursday

Answer: Thursday since there are 31 days in March, assume that Monday is the 1st of the month, then the 5th Monday is the 29th, Tuesday is the 30th, Wednesday the 31st. Thus Thursday cannot appear in this month also five times. {10 points if give correct answer; 3 points if Tuesday; otherwise, 1 point for trying}

5. If you fold a piece of paper in half twice and make 4 holes with a hole puncher into it.... How many total holes will you have when you unfold the piece of paper? **Answer: 16 fold a piece of paper twice and punch one hole. When it is unfolded you have 4 holes. Thus multiply 4 by 4 and you get 16 {5 points if give correct answer; 2 points if give 8; otherwise, 1 point for trying}**

6. Mrs. Johnson wants to build 6 shelves for her garage. Each shelf will be 8 feet long and cost \$2 per foot. She also has to buy 2 brackets per shelf that cost \$2 each. How much total money will she spend?

Answer: \$120 since $6 \times (8 \times \$2) + 6 \times (2 \times \$2) = 6 \times (\$16 + \$4) = 6 \times \$20 = \120 {5 points if give correct answer; 2 points if \$96 or \$24 give only one correct answer; otherwise, 1 point for trying}

7. The sum of 2 numbers is 72, and the difference of those 2 numbers is 48. What are the 2 numbers? Answer: 60 and 12

{5 points if give both answers correct; 3 points if 1 answer correct; otherwise, 1 point for trying}

8. Alexandra receives \$4 in allowance. She takes half and puts it in her piggy bank and takes the remaining half and goes to see a movie which costs \$1. How much money does she have left afterwards, not including the money in her piggy bank?

Answer \$1 since receive \$4 saves 50% of \$4 which is \$2 so remains \$2. Goes to see a movie so only $\$2 - \$1 = \$1$ remain {5 points if give correct answer; 2 points if \$96 or \$24 give only one correct answer; otherwise, 1 point for trying}

9. Friday was 5 days before yesterday. What day is tomorrow?

Answer: Friday {5 points if give correct answer; 2 points Thursday; otherwise, 1 point for trying}