


Dr. Charles R. Drew Elementary School Summer Math Problems for 4th grade students going into 5th grade

~ SUMMER 2014 ~

Welcome to the summer math problems for students entering Fifth Grade. Reviewing the learned skills will maintain the foundation for math success at the next grade level. It is expected that students will complete all problems over the summer.

7 
Alex says the shape is a rhombus. Carolyn says the shape is a square.

The teacher says they are both correct. Why?

1 The answer to a division problem is 23. What was the problem?

How can you change the problem so that it has a remainder of 3.

2 Draw three different designs that are all $\frac{3}{4}$ green. How are the designs similar? Different?

3 Students from three classes are planning a field trip. On the trip, there will be 24 students from each class, along with 8 teachers and 12 parents. How many people go on the trip?

4 Make a list of 5 numbers you see around your house or while out and about with your family. Write each number in expanded and word form.

5 A student says that $\frac{1}{5}$ is bigger than $\frac{1}{4}$ because 5 is bigger than 4.

Are they correct? Why or why not?

6 Sarah rounded a four digit number to 3,500. What could her number be?

What other numbers could be rounded to 3,500?

8 Write the following number in expanded form.

 $24,036$

9 Write a multiplication word problem and teach someone the steps to solve it.

10 Mrs. Brewer and Mrs. Glawe each ate $\frac{1}{4}$ of their sandwich. Mrs. Brewer ate more than Mrs. Glawe.

Explain how this is possible.

11 Solve:
• $4,689 - 2,349$
• $5,008 - 899$
• $1,000 - 749$

12 Four families each brought the same number of chairs to a block party. Three more chairs are needed to seat all 27 of the participants. How many chairs did each family bring?

13 How many $\frac{1}{4}$ are there in $2\frac{3}{4}$?

What about it $4\frac{1}{2}$?

14 My calculator's subtraction key is broken.

What else could I put into the calculator to solve this problem?

 $68 + X = 413$

15 Sort these fractions: Are they closer to 0, $\frac{1}{2}$ or 1? Draw a picture or model to prove it.

 $\frac{5}{6}, \frac{3}{4}, \frac{7}{9}, \frac{2}{5}, \frac{2}{3}, \frac{1}{8}$

16 3.091
• Is this number closer to 3 or 4?
• Is this number closer to 3 or 3.1?

Be sure to explain how you know.

17 Order these decimals from least to greatest:

• 34.098
• 33.999
• 34.908
• 34.089

18 Draw three different shapes that all have a perimeter of 46.

How are they similar? How are they different?

19 The area of Mr. Burd's rectangular garden is 240 square feet.
• Give at least two different possible measurements for his garden.
• Compare the perimeters of these gardens.

20 Sean has 21 cents in his pocket. Sean told Jesse that he would give Jesse the 21 cents if he could correctly guess what coins they were. He would give Jesse 3 guesses. If Jesse did not guess correctly, Jesse would have to give Sean 21 cents. Should Jesse guess? Explain your math thinking. What guesses would you make?

21 Write a division word problem and explain to someone how you would solve it.

22 Two brothers want to make muffins for the 35 kids at their summer camp. They have \$5.00 to spend on muffin mix. The box of muffin mix said it would make 12 muffins. Each box of muffin mix is \$1.25. Will the boys be able to make enough muffins for everyone?

23 Order these fractions from least to greatest.

 $\frac{1}{3}, \frac{1}{8}, \frac{1}{5},$ and $\frac{1}{10}$

Draw a model to prove you are correct.

24 Solve:
• 24×5
• 312×6
• 129×12

25 In the Land of Oz lives Ozzie, who is confused about time. He is trying to figure out how many times a day the hour hand passes a number that is a multiple of 3. What is the answer?

26 The answer is 312, what is the question?
• What other questions could have this same answer?
• Can you come up with a problem that uses multiple operations?

27 Name at least two numbers that come between 2.7 and 2.8.

Create a number line to show these decimals.

28 Draw a picture that includes the following (you may add more):
• 2 parallelograms
• 1 right angle
• 1 obtuse angle
• 1 trapezoid

29 What are the missing #'s?
$$\begin{array}{r} 38 \quad 4 \\ \underline{} \\ 410 \quad \\ + \quad \underline{} 74 \\ \hline 8900 \end{array}$$

30 The teachers ate a lot of candy at their meeting! Who ate the most? Least? How can you prove it?
Mrs. A ate $\frac{2}{6}$ of her bar
Mr. B ate $\frac{2}{3}$ of his bar
Ms. C ate $\frac{5}{8}$ of her bar
Mrs. D ate $\frac{1}{2}$ of her bar
Mr. E ate $\frac{1}{3}$ of his bar

Websites to Support Summer Math Learning/Practice
<http://illuminations.nctm.org/> (National Council of Teachers of Mathematics Site ©)
On the right side of the home page, check interactives and choose a grade level. Tons of activities that support the MCPS curriculum
<http://www.allmath.com/>
This site has flash cards and links to other sites for games, math humor, worksheets, math help and more.
<http://www.aplusmath.com>
This site has basic facts flash cards and a...