

May 2018 Math Challenge

These problems are labeled in order of increasing difficulty. Choose **ONE** problem that you think fits your grade and math ability and solve the problem. Explain your answer using words, pictures or numbers. Mom and Dad can help you. All solutions are due to Mrs. Lewis by: Thursday, May 31st. Bring your completed Math Challenge to the office and place it in the box marked: MATH CHALLENGE. Students who successfully complete the challenge **with the correct answer and a logical explanation of their mathematical thinking** will receive a small prize. **Use the back of this page to solve your problem.** Happy Problem Solving!!!

Problem A

Spiders, spiders, spiders

You have 50 normal spiders. How many spider legs and spider eyeballs do you have?

Problem B

Change from a Twenty

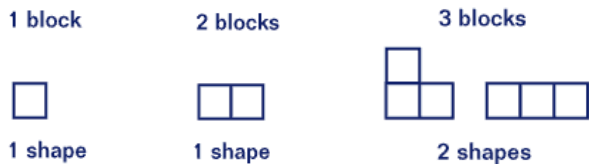
José bought two pieces of clothing. He paid with a \$20 bill and got \$3.20 change. **Which items did he buy from this list?**

<u>Item</u>	<u>Price</u>
Sneakers	\$14.95
Shorts	\$12.45
Jacket	\$11.65
T-shirt	\$9.95
Hat	\$6.85
Socks	\$3.95

Problem C

One More Block

When Max started putting square blocks together to make shapes, he noticed something interesting. There was only one shape he could make with one block. And there was only one shape he could make with two blocks. But with three blocks, he could make two different shapes. **How many shapes could Max make with four blocks? How many could he make with five?** Keep this in mind: If you can turn one shape into another by turning it or flipping it over, then it isn't different from the other shape. The two shapes count as one.



Problem D

The Geddes' refrigerator

The Geddes' refrigerator is old. It is so inefficient that it uses \$30 more electricity each month than a new refrigerator would use. They are thinking about buying a new refrigerator for \$800. **If the Geddes' buy the new fridge, how many months will it take for the savings on their energy bill to equal the cost of the new refrigerator?**

Problem E

Wacky Weather

Ms. Chen was discussing El Niño and told her students that the unusual, drastic changes in the weather in the Northeastern United States have caused temperatures to rise and fall very suddenly. "At this time yesterday it was 20 degrees colder than it is today. Do you remember the record-setting 'high' just two weeks ago; when the temperature was twice as high as it was yesterday? That was just a week before it snowed, when the mercury had plunged to one third of the 'high,' and then fell another 3 degrees, resulting in a temperature of 5 degrees below freezing on the Fahrenheit scale." **What was the temperature on the day that Ms. Chen discussed the changing weather patterns with her class?**

First Name _____ Last Name _____

Grade _____ Teacher _____

Circle the problem you are solving: A B C D E Super Challenge

Solve your problem in the space below, and be sure that you EXPLAIN your answer in numbers, words or pictures.

This Challenge is DUE in the office by May 31st. Have fun doing math!

First Name _____ Last Name _____

Grade _____ Teacher _____

Solve your problem in the space below, and be sure that you EXPLAIN your answer in numbers, words or pictures.

Super Challenge: Mrs. Mason's Party

Mrs. Mason retired and invited her math students and her computer students to her retirement party. Mrs. Mason shook hands with all her guests. Among her guests, her math students shook hands with each other, and her computer students shook hands with each other; but the math students and computer students simply greeted one another with a nod of the head. One hundred twenty-three handshakes were exchanged at the party. No math student was also a computer student. How many people were at the party (including Mrs. Mason) if at least 3 math students and at least 3 computer students attended?

This Challenge is DUE in the office by May 31st. Have fun doing math!

May 2018 Early Challenger

First Name _____ Last Name _____

Grade _____ Teacher _____

This Early Challenger is for Kindergarteners and First Graders ONLY. Mom and Dad can help you. All solutions are due by: Thursday May 31st. Bring your completed Math Challenge to the office and place it in the box marked: MATH CHALLENGE. Students who successfully complete the challenge **with the correct answer and a logical explanation of their mathematical thinking** will receive a small prize.

Solve your problem in the space below and be sure that you **EXPLAIN** your answer in numbers, words or pictures. Happy Problem Solving!!!

A Rose Hill Family went to the Skagit valley Tulip festival.. John bought 4 yellow tulips. Holly chose 3 pink ones. Mom chose 2 Red tulips and Dad chose 5 orange ones. How many tulips did they buy in all?
Draw pictures to help you solve.

Answer:

This Challenge is DUE in the office by: Thursday, May 31st. Have fun doing math!

Rose Hill Elementary

PTSA

everychild.one voice.