

# Math Challenge #5



First Name: _____	Last Name: _____	Grade: _____
Teacher: _____	Parent's email: _____	

## Multi-steps

Welcome to Math Challenge #5. In this challenge, we look at problems that require multi-step solutions. The question of 'how many' sounds straight forward. However, pay attention on what the question is actually asking. Grab your parents and siblings to solve problems with you. Good luck!

**Kinder & First Grade: solve at least 3 problems.**  
**Second & Third Grade: solve at least 6 problems.**  
**Fourth Grade and above: solve at least 12 problems.**

*Answer*

1. There were 5 melons in Tina's garden. Two of them were harvested. One of them was rotten so Tina threw it away. How many melons are left in the garden?

2. The answer to each of the following addition problems is on the back of each card. How many of the following 6 cards have the number 12 on the back?

$9 + 4$

$3 + 4 + 5$

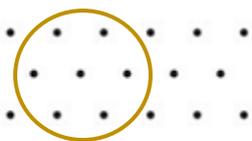
$7 + 6$

$8 + 4$

$2 + 4 + 6$

$1 + 8 + 3$

3. How many dots are outside the circle?



4. Caitlin is sorting number cards into 3 boxes as shown below. How many number cards should go in the box labeled C?

36

12

41

53

26

31

47

21

62

19

38

**M**

Numbers that are smaller than 22

**C**

Numbers that are greater than 22 but less than 45

**T**

Numbers that are greater than 45

5. Thalia put her stuffed animal's collection in boxes. When she was finished, she had 4 boxes of 10 stuffed animals, and 1 box of 4 stuffed animals. How many stuffed animals does Thalia have altogether?

6. Anton runs 5 miles on a sunny day, and he runs 2 miles on a cloudy day or when there are clouds in the sky. The chart on the right shows last week's weather. How many miles did Anton run last week?

SUN AUG 19		Mostly Sunny
MON AUG 20		Sunny
TUE AUG 21		Mostly Sunny
WED AUG 22		Partly Cloudy
THU AUG 23		Sunny
FRI AUG 24		Sunny
SAT AUG 25		Sunny

7. Houses on Redmond street are numbered with consecutive even numbers. If the first house is numbered 52 and the last house is numbered 88, how many houses are on Redmond street?  
*Note: Consecutive numbers are numbers that follow each other in order.*

8. Two mangoes cost the same as 5 peaches. If a mango cost \$1.50, how much does a peach cost?

9. In 2018, the price of Sumatra coffee at the ABC store is \$9.00 per pound. Holy predicts that the price will increase by \$0.25 per year for the next 10 years. If she is correct, in what year will the price of one pound of Sumatra coffee in the ABC store be \$10.75?

10. The school book fair is happening this week. Ella is excited to purchase some books from saving some of her allowance. All paperback books cost the same. If Ella buys 5 paperback books, she will have \$3 left. If she buys 6 paperback books, she will need \$12 more. How much does a paperback book cost?

11. During the upcoming winter break, Connor's goal is to read these 4 books: The Wicked King, the Outsiders, the Fault in Our Stars, and the Cruel Prince. He plans to read the Wicked King sometime after he reads the Cruel Prince. How many different orders can Connor read these 4 books?

12. If each child eats exactly  $\frac{2}{3}$  of a mini pizza, how many children can be fed with 12 mini pizzas?

13. Students in Ms. Porter's class are standing in a circle. Students are evenly spaced apart and are consecutively numbered around the circle. The student with number 4 is standing directly across from the student with number 18. How many students are in the class.  
*Hint: Draw it out or illustrate the situation*

14. Danika bought a keyboard and a stand for the keyboard for \$145.00. The keyboard costs \$85.50 more than the stand. How much did Danika spend on the keyboard?

*Hint: Draw a model*

15. The sum of 4 whole numbers is 39. The product of two of these numbers is equal to 80, and the product of the other two numbers is also equal to 80. What is the largest of these four numbers?

16. There are 4 songs playing in a loop without any break. The first song (A) lasts 3 minutes, the second song (B) lasts 2 minutes and 30 seconds, the third song (C) lasts 4 minutes, and the last song (D) lasts 2 minutes. The third song (C) just started when Angelica left home. She returned home exactly one hour later. Which song was playing when she got home?

*Solution is available on 12/7/2018 at [www.mathinaction.org](http://www.mathinaction.org)  
Good luck everyone at the [Math Challenge Tournament](#)*