

# Math Challenge #3



First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_ Grade: \_\_\_\_\_  
Teacher: \_\_\_\_\_ Parent's email: \_\_\_\_\_

## Candies, Cupcakes, Brownies!

Welcome to the Math Challenge #3. Most problems in this math challenge can be solved by drawing a model/picture/diagram. The purpose of drawing a model/picture/diagram is to clarify the information on the problem so that we can understand and think about the next step in solving the problem. Drawing it out also sometimes help us to see what's going on with the problem. A complete overview of elementary problem solving strategies are available at <https://www.mathinaction.org/problem-solving-strategies.html>. Invite your parents and siblings to help you solve these math problems.

**Kinder & First Grade: solve at least 3 problems.**  
**Second & Third Grade: solve at least 7 problems.**  
**Fourth Grade and above: solve at least 12 problems.**

*Answer*

1. Tommy has 6 candies that he would like to share equally with his sister, Annabel. How many candies will Annabel receive from Tommy?



2. Jessica brought 3 Butterfinger cupcakes to share. Tina brought 4 Caramel Apple cupcakes, and Lina brought 4 Chocolate Mint cupcakes to share. How many cupcakes were there altogether?



3. Luna had 5 more candies than Donna. If Donna had 6 candies, how many candies do they have altogether?

4. One lollipop cost \$1 and two chocolate bars cost \$4. How much is the total cost for 2 lollipops and one chocolate bar?



5. Bianca, Julia, and Avery each got a bag with 10 candies in it. Each girl gave 1 candy to her teacher and ate 2 candies. Then they placed all the leftover candies into a bucket. How many candies were there in the bucket?

6. There are some orange and black gumballs in a jar. The number of black gumballs is twice the number of orange gumballs. If there are 5 orange gumballs, how many total gumballs are in the box?

7. The first graders are lining up for free ice-cream. Two out of three students in front of Susan are boys. Four out of the nine students behind her are girls. How many girls are lining up for the free ice-cream?



8. The distance between Dr. Sweet Candy Shop and Nora's house is 358 yards. The distance between Dr. Sweet Candy Shop and the Professor Freeze Ice Cream Shop is 754 yards. What is the distance (in yards) from Nora's house and the ice cream shop if Nora's house lies between the candy shop and the ice cream shop?

9. The total number of candies in both jars is 196. There are 108 pink candies. The number of blue candies is the same in both jars. What is the amount difference between the two colors candies in the right jar?



10. Sonya made a large pan of brownies. He cut the brownies into 5 rows with 6 brownies in each row. How many brownies have no crispy edges?



11. Victor has two dozen cupcakes. He sells  $\frac{2}{3}$  of the cupcakes for \$3.25 each. He sells the remaining cupcakes for \$2.50 each. How much money does Victor make from selling the cupcakes?

12. Tommy has just delivered 5 dozen cookies to a party located in a certain floor of an apartment building. He then entered the elevator and moved up 6 floors, down 4 floors, and up 3 floors. He was then at floor 7. At which floor did he deliver the cookies?

13. The cost of a Halloween cake to be delivered is \$79. If the cake cost \$61 more than the delivery fee, how much is the delivery fee?



14. Getting home from trick or treat, Celia and Emma counted their candies. Half of Celia's candies is equal to  $\frac{2}{3}$  of Emma's candies. They had a total of 105 candies altogether. How many candies did each of them have?

15. Mr. Moore paid \$216 for 5 large cakes and 4 mini cakes. One large cake cost 4 times as much as a mini cake. How much did one mini cake cost?

16. At the beginning of the year, Mark and Louisa had 90 candies altogether. After Mark ate  $\frac{1}{3}$  of his candies and Louisa ate 25 of her candies, they both had an equal amount of candies left. How many candies did each of them have at first?

17. In two hours of trick-or-treating, Ranya, Codie and Jessica filled six bags with treats. Together, they visited the same number of houses and received the same number of treats. At this rate, how many bags of treats could Jessica fill alone, in one hour of trick-or-treating?

18. The ratio of Chelsea's candies to Ron's candies is 4:7. Chelsea gives  $\frac{1}{8}$  of her candies to Ron, and Ron now has 120 candies. How many candies did Ron have before Chelsea gave him some candies?

*Solution is available on November 8, 2019 at [www.mathinaction.org](http://www.mathinaction.org)*

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2019 MCT**