

Name \_\_\_\_\_

Date \_\_\_\_\_



# Candy Party



You are having a party and want to buy some candy to feed your guests! At the store, they only sell candy in packages. *You cannot buy a single piece of candy.*

**The Constraints** – How do decide what to buy:

- You estimate you will need **at least 58 pieces of candy** for your party.
- Some people are allergic to chocolate so you need **at least 1 kind of candy that has no chocolate** at your party.
- You can buy **no more than 4 different kinds of candy** to have at your party.

The Candy comes in packages like this:

- ❖ **2** Fireballs (no chocolate)
- ❖ **2** pieces of bubble gum (no chocolate)
- ❖ **5** Kit-Kats
- ❖ **5** Airheads (no chocolate)
- ❖ **10** mini Reeses Peanut Butter Cups
- ❖ **10** Hershey's Kisses

Which kinds of candy will you buy, and how much of each kind will you need to feed all your guests? Use the chart to show your work.

	Amount in Package	Number of Packages	Total Number of Candy
Fireballs			
Bubble Gum			
Kit-Kat's			
Airheads			
Reeses Peanut Butter Cups			
Hershey's Kisses			

Total Amount of Candy: \_\_\_\_\_ pieces

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## Challenge Question!

YOU NOW HAVE A BUDGET FOR YOUR PARTY AND CAN ONLY BUY \$10.00 WORTH OF CANDY. Which kinds will you buy? How much of each kind will you buy?

The Constraints:

- You estimate you will need **at least 58 pieces of candy** for your party.
- Some people are allergic to chocolate so you need **at least 1 kind of candy that has no chocolate** at your party.
- You can buy **no more than 4 different kinds of candy** to have at your party.

**Challenge:** You only have \$10.00 so you can spend **no more than \$10.00**.

The candy comes in packages like this:

- ❖ **2 Fireballs - \$0.50** (no chocolate)
- ❖ **2 pieces of bubble gum - \$0.10** (no chocolate)
- ❖ **5 Kit-Kats - \$1.50**
- ❖ **5 Airheads - \$0.50** (no chocolate)
- ❖ **10 mini Reeses Peanut Butter Cups - \$1.00**
- ❖ **10 Hershey's Kisses - \$0.50**

Use the chart to show your work.

Name \_\_\_\_\_

Date \_\_\_\_\_

	Number of Packages	Cost Per Package	Total Cost	Number of Packages	Amount in Package	Total Number of Candy
Fireballs						
Bubble Gum						
Kit-Kat's						
Airheads						
Reeses Peanut Butter Cups						
Hershey's Kisses						

Total Cost: \$ \_\_\_\_\_

Total Candy: \_\_\_\_\_ pieces