## **Math Activities**

The Heads In, Hearts In family enrichment program encourages families to use their minds (putting their "heads in") as a tool to expand their knowledge around a variety of topic areas. By creating a shared educational experience, the family unit will work, grow and learn together, putting their "hearts in" to the process.



#### This unit contains the following:

- ▶ 3D Shapes
- Eggs-cellent Counting
- Guess Which Shape
- Gumball Equations
- Hungry Hedgehogs
- Marshmallow Structures
- Measure a Room
- ▶ Measurement Equivalents
- Measuring Liquids
- ▶ Photo-Graph
- Pie Die
- Skippy Clippy
- Spinner Math
- Stories Math
- Time: Before and After
- ▶ Twisting Place Values

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# HEADS IN, HEARTS IN

## **Storied Math**





## **Supplies**

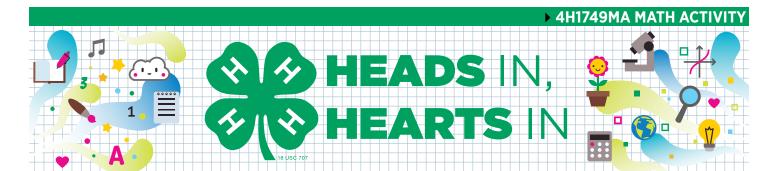
- ☐ "Guide for Families" handout
- ☐ Clear plastic standup display (optional)
- ☐ "Storied Math" ("Addition,"

  "Subtraction," "Multiplication"

  and "Division" handouts, one of
  each per participant or family)
- □ Pencils
- □ Display table

## **Activity Preparation**

- ▶ Purchase or locate items on supply list.
- ▶ Print one copy of the "Guide for Families" handout. Laminate or place in a clear plastic standup display to allow participants to see it more readily.
- Print "Storied Math" handouts.
- > Set up the display table and arrange needed supplies.



## **Guide for Families**

### **Learning Objectives**

#### What you need to know:

A word problem (or story problem) is a written story that introduces a math problem that needs to be solved. Word problems use real-life scenarios that help you practice solving problems and practice math skills such as adding, subtracting, multiplying and dividing.

#### What you will do and learn:

You will practice solving math problems using stories. You will draw a picture of the problem, create an equation and write your answer.

#### **Instructions**

- Select one "Storied Math" handout: "Addition,"
   "Subtraction," "Multiplication" or "Division."
   Read the stories and then fill in the handout by drawing a picture of the problem, writing an equation of the problem and then writing your answer.
- 2. Complete the additional "Storied Math" handout pages.



### **Addition Handout**

The Apple Orchard		
Austin, Will and Neveah went to pick apples in an apple orchard. When they went to pick up their baskets, they saw a sign that said the orchard had 11 different kinds of red apples, 2 different kinds of green apples and 7 different kinds of yellow apples. How many kinds of apples does the orchard have in total?	My Picture:	
My Equation: + + =		
While picking apples in the orchard, Austin, Will and Neveah got hungry. Austin ate 5 apples, Will ate 2 apples and Neveah ate 7. How many apples did they eat in total?	My Picture:	
My Equation: + + =		
Will picked 11 sweet apples, 8 tangy apples and 17 tart apples to make an apple pie. How many apples did Will pick in total?	My Picture:	
My Equation:		

### **Subtraction Handout**

## **Arianna's Birthday**

It's Arianna's birthday and she is throwing a party. She sent out 31 invitations to her friends and 12 people said they can't come to the party. How many people will be attending Arianna's party?	My Picture:
My Equation:	
=	
Arianna picked up 26 balloons to decorate her house. When putting the balloons in her car, 2 balloons popped and then 7 balloons blew away in the wind. How many balloons does she have left to decorate with?	My Picture:
My Equation: =	
Arianna made a delicious chocolate cake for everyone to eat at the party. Arianna cut the cake and gave a piece to each of her 19 guests but then 5 people said they didn't want cake and 2 people said they were allergic to chocolate. How many pieces of cake did Arianna's guests eat?	My Picture:
My Equation: =	

## **Multiplication Handout**

## A Day at the Aquarium

71 Du <b>y</b> u	
Jamari and Clara went to the aquarium. Each person who enters the aquarium gets 2 wristbands. There are 17 people in the aquarium. How many wristbands are there?	My Picture:
My Equation:	
x =	
Jamari and Clara go to look at the jellyfish. They see 3 different jellyfish. Each jellyfish has 15 tentacles. How many tentacles are in the tank?	My Picture:
My Equation:	
x =	
They go to look at shrimp next. There are 8 shrimp in each tank and Jamari and Clara see 6 tanks. <i>How many shrimp are there?</i>	My Picture:
My Equation:	
x =	

### **Division Handout**

Damien's Garden		
Damien is planting a vegetable garden this summer. He has 15 different kinds of vegetables to plant and 5 rows in his garden. How many kinds of vegetables will be in each row?	My Picture:	
My Equation: ÷ =		
Damien's zucchinis are ready to be picked. He picks 27 zucchinis and divides them equally into 3 bunches to give them to his neighbors. How many zucchinis are in each bunch?	My Picture:	
My Equation: ÷ =		
Damien is picking his cabbages from the garden. He needs to pick 45 cabbages and he can fit 9 cabbages into each basket. How many baskets will he need to use?	My Picture:	
My Equation:		