

## 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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MICHIGAN STATE<br>U N I V ER S I T Y

## Extension



## 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)
$\square$ 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.



## Storied Math

## 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.

## Instructions

1. 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.

## Storied Math

## 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 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?


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 Equation:


My Picture:

## My Picture:

## My Picture:

## Storied Math

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?


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 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 Equation:


My Picture:

## My Picture:

My Picture:

# Storied Math <br> Multiplication Handout 

## A Day at the Aquarium

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 Equation:


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 Equation:


They go to look at shrimp next. There are 8 shrimp in each tank and Jamari and Clara see 6 tanks. How many shrimp are there?


My Picture:

My Picture:

My Picture:

## Storied Math

## 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?


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 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 Picture:

My Picture:

