# Thome Connections Math Activities 

## Grade 5

Patterning and Algebra

## Investigating Square Numbers A Massive Puzzle

## Investigating Square Numbers

Ask your child to show why $1,4,9,16,25,36$ are square numbers.



## Let's Talk About It

If a square number is multiplied by another square number will the product (result) also be a square number?
If a square number is multiplied by a non-square number what do you think the product (result) will be? Why?

## A MASSive Puzzle

Task: Find the mass of an orange, a pineapple, and a watermelon.

1. Use the clues in the table to find the mass of each object. For example, using the first row we know that the combined mass of the oranges, pineapples, and watermelon is 17 kg . Use the other rows and columns to get more clues.
2. Write an algebraic equation to represent each relationship.

For example: $O+P+W=17$


## Let's Talk About It

How did you solve the problem?
What was challenging about this puzzle?

## A MASSive Puzzle



