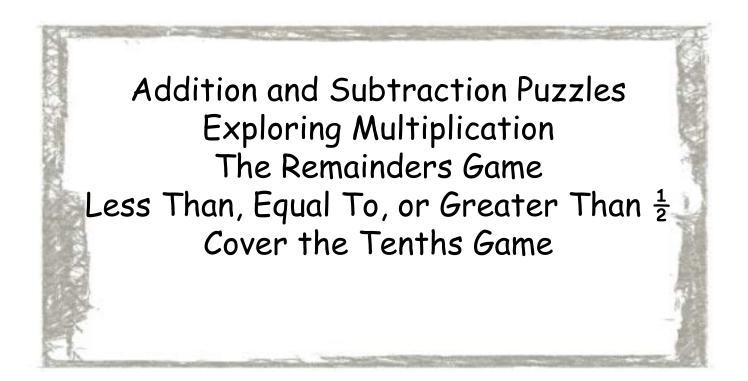
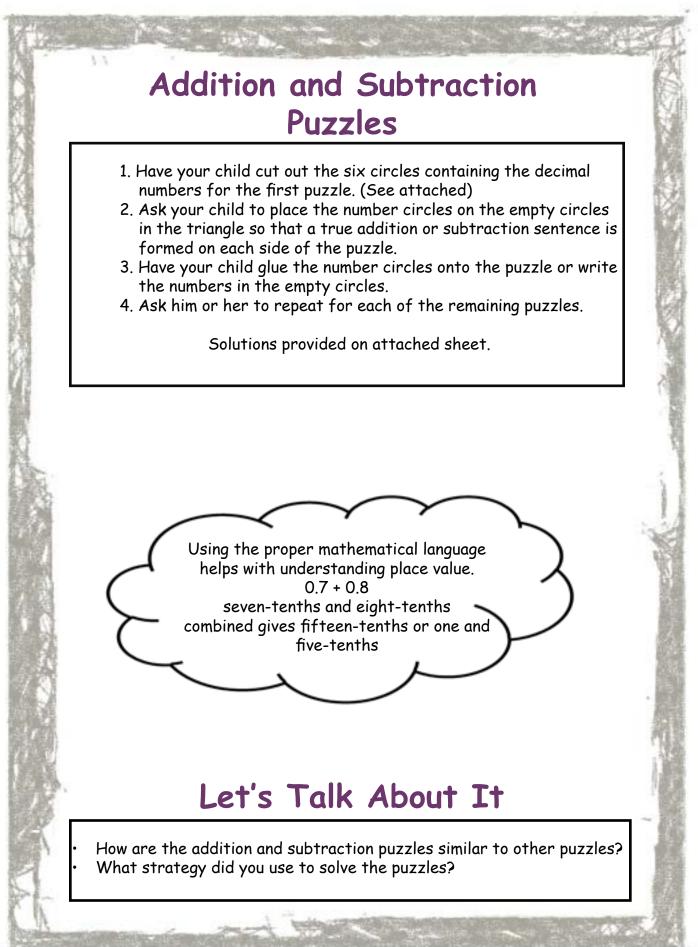
Note Connections Math Activities

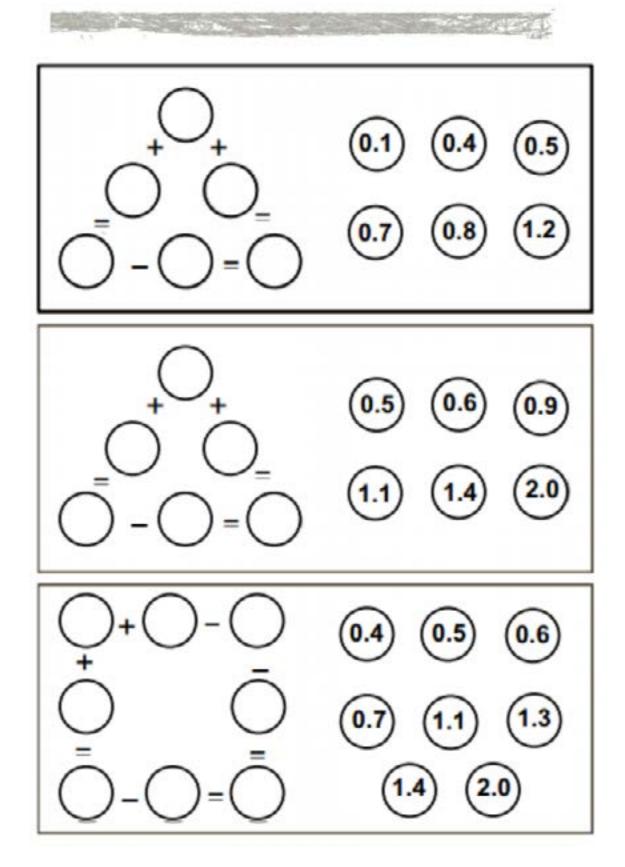
Grade 4

Number Sense and Numeration

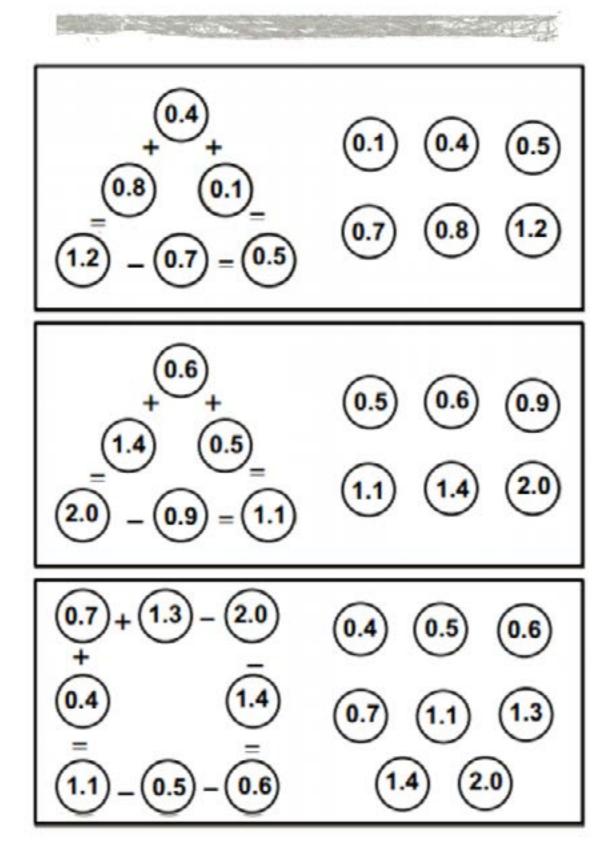




Addition and Subtraction Puzzles



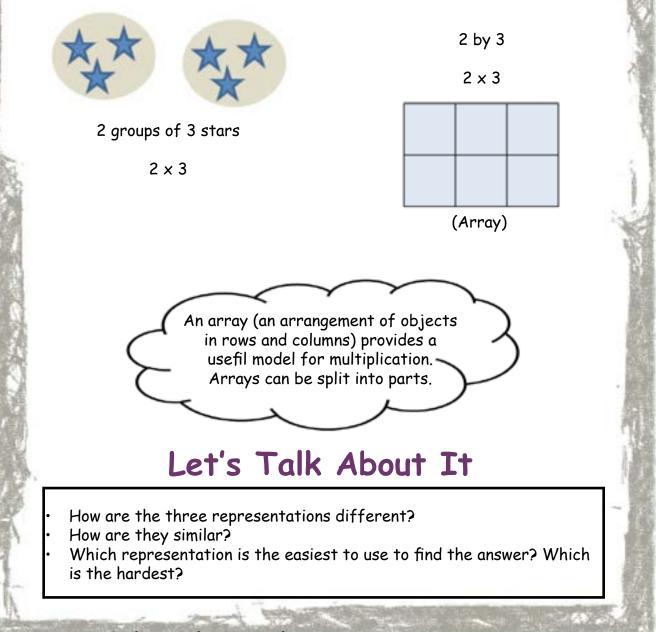
Addition and Subtraction Solutions



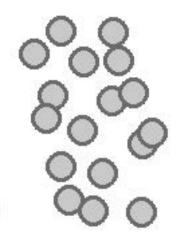
Exploring Multiplication

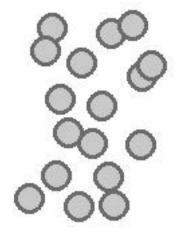
Three different ways to represent 3×17 is on the attached sheet.

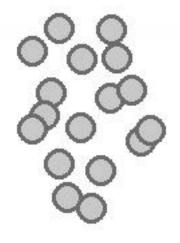
- 1. Ask your child to explain how each representation could be used to find the answer to 3×17 .
- 2. Ask your child to represent 3 x 17 another way.



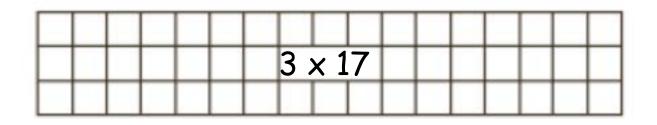
Exploring Multiplication

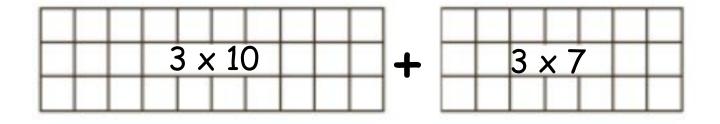






17 + 17 + 17





The Remainders Game

Number of Players: 2

Materials:

1.5

- Die 🏫
- 20 small objects
- Piece of paper and pencil

Rules:

- 1. Play this game with a partner.
- 2. To begin, a player rolls the die. The player needs to divide the 20 small objects equally amongst the number of groups shown on the die.
 - For example:
 - 3 is rolled, the 20 small objects are divided into 3 groups.



- 3. If there is a remainder, the player records the number of remaining objects on a piece of paper. For the example, the remainder is 2.
- 4. Now the turn passes to the other player who rolls the die, makes equal groups, and records the remainder on his or her paper.
- 5. After each player has had 10 turns, the players add up the remainders on their piece of paper.

The player with the least total wins the game

The left over after dividing a quantity evenly is called the remainder.

Let's Talk About It

How do you figure out what the remainder is? What does the remainder in division mean?

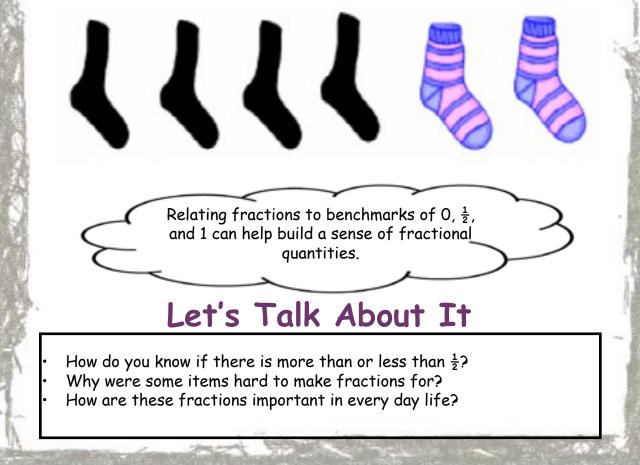
Less Than, Equal To, or Greater Than 1/2

1. With your child, find examples of fractions in your home. For example:

- the fraction of socks in a drawer that are black
- the fraction of doors that have locks
- the fraction that describes the amount of water in a bottle

2. Ask your child to compare these fractions with $\frac{1}{2}$. For example:

- more than $\frac{1}{2}$ of the socks in the drawer are black
- exactly $\frac{1}{2}$ of the doors have locks
- the water bottle is less than $\frac{1}{2}$ full
- 3. Ask your child to make drawings to show how some of the fractions you found compare with $\frac{1}{2}$.



Cover the Tenths Game

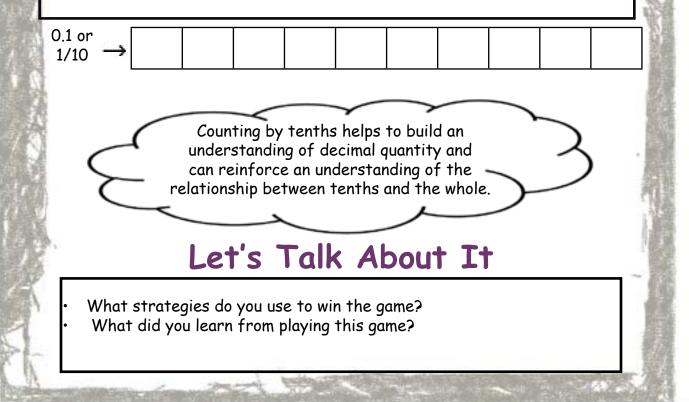
Materials:

Number of Players: 2

- 10 small objects (buttons, coins...)
- Piece of paper
- Pencil

Rules:

- 1. Cut out the rectangles on the attached page. Each rectangle is considered one-whole with 10 parts. Each part is worth "0.1" or "1/10".
- 2. Players take turns covering spaces on the rectangle with small objects (one small object per space).
- 3. At each turn, players decide whether to cover one, two, or three spaces. Encourage your child to count out each space as they cover the spaces with the small object (e.g. one tenth, two tenths, three tenths).
- 4. Have your child record the fraction and decimal for each turn. For example, if 3 spaces are covered, the player would announce "3 tenths" and would record "3/10" and "0.3."
- 5. The player who places the last object on the rectangle is the winner.



Cover the Tenths Game



Game 1

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Game 2

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