MARTIN'S math club

Lesson Plan

2nd Grade

Algebraic Thinking and Operations

"Hip! Hip! Array!"

Objective:

By the end of the activity, the students will be able to

- Recognize the equation that represents a given rectangular array.

Materials:

- "Scoreboard" activity sheet
- "Rectangular Array" cards
- Dry Erase Markers

Teacher Preparation:

- Copy the "Scoreboard" activity sheet and place in sheet protectors for each student.
- Copy and cut the "Rectangular Array" cards.
- Group students into pairs.

Directions:

If needed, model the game for the students. As the students play, observe how the students justify their matching pairs. Ask probing questions throughout the game.

1. Mix up the cards, keeping them face down.
2. Take turns flipping any two cards.
3. If two cards match a picture with its correct equation, take them and add a point to your scoreboard. If not, flip the two cards face down again.
4. Keep taking turns with your partner until all cards have a match.

Question(s):

- [Student Name], did your partner find a match? Why? Why not?
- [Student Name], how do you know your cards are a match?

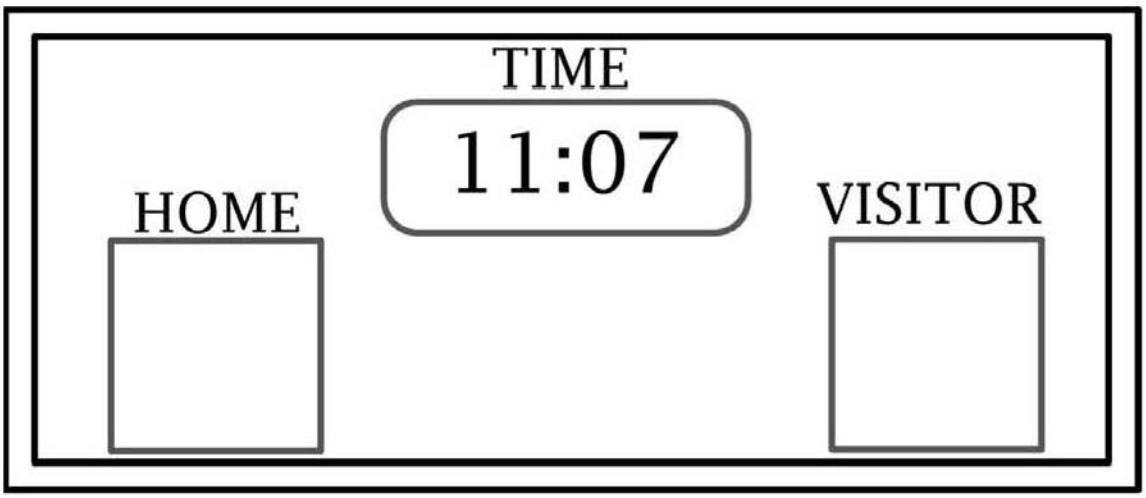
South Carolina College- and Career-Ready Standards for Mathematics:

2.ATO.4 Use repeated addition to find the total number of objects arranged in a rectangular array with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

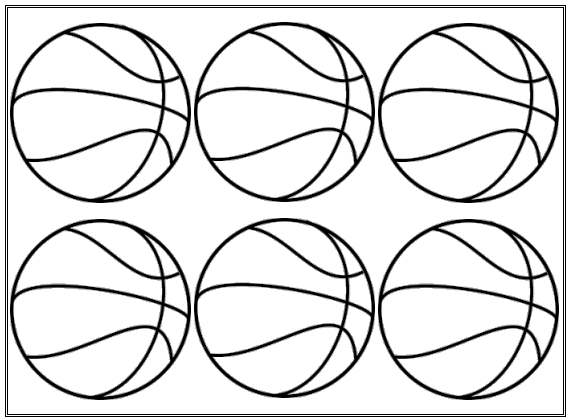
Extensions:

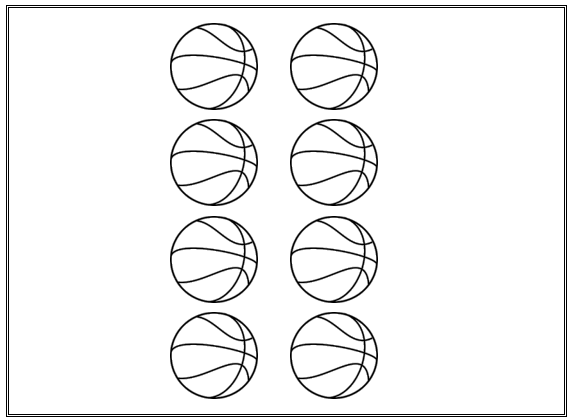
- You may modify the word problem how it best fits your classroom.
- Include subtraction word problems.

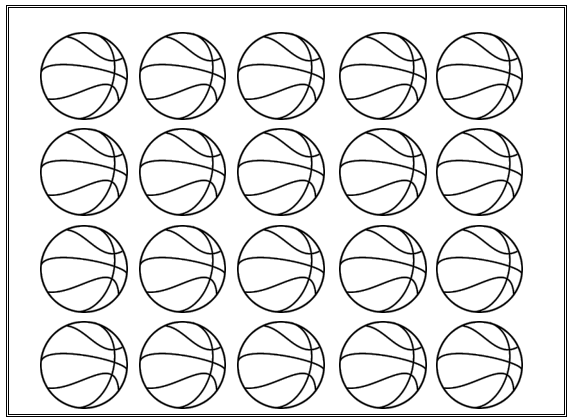
Scoreboard

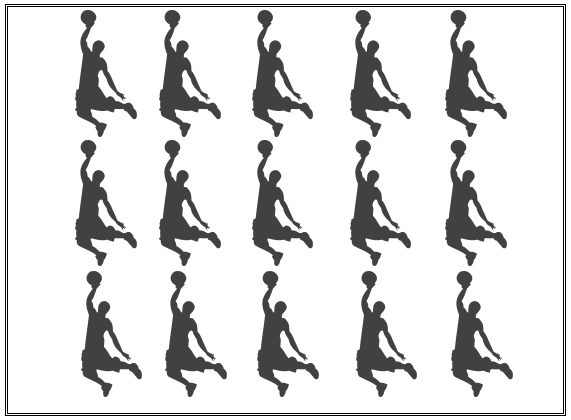


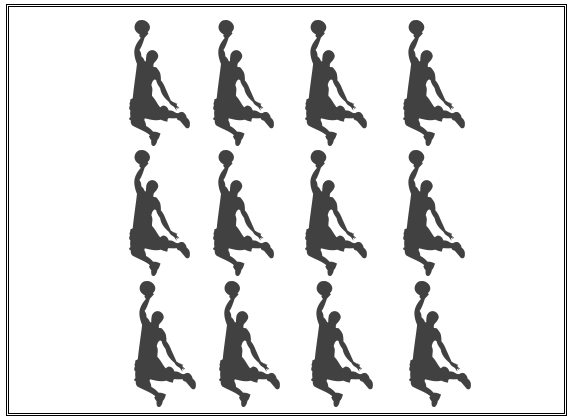
Direction: As you find a match, add a point to the scoreboard above. Write or draw any work below.

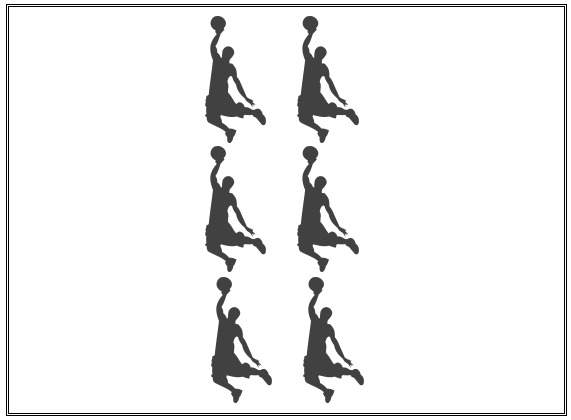


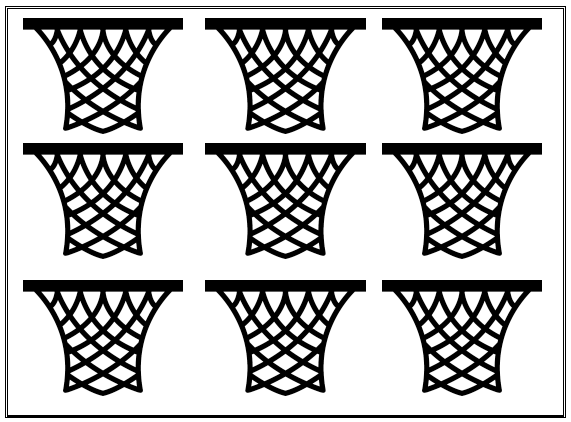


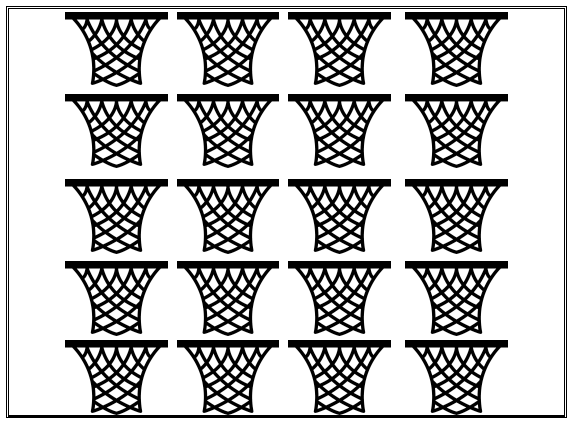


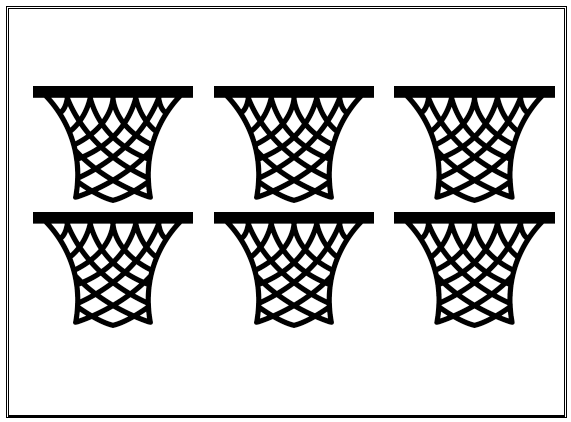












$3 + 3 = 6$

$2 + 2 + 2 = 6$

$5 + 5 + 5 = 15$

$3 + 3 + 3 = 9$

$5 + 5 + 5 + 5 = 20$

$2 + 2 + 2 + 2 = 8$

$3 + 3 = 6$

$4 + 4 + 4 + 4 + 4 = 20$

$4 + 4 + 4 = 12$