EMARTIN'S Lesson Plan math club

Season 3

7th Grade

Number Sense

"Basketball Parts & Wholes"

Objective:

By the end of the lesson/activity, the students will be able to:

• Use the ability to convert between fractions, decimals, and percentages to apply them to visuals as a type of multiply representation.

Materials:

- "Fractional Basketball" activity sheets
- "Basketball Parts and Wholes" activity sheets
- Glue Sticks

Teacher Preparation:

- Group the students into pairs or allow them to work individually.
- Copy the activity sheets.

Teacher:

- Cut one of your basketballs in half and ask the students about what they see in your hand.
- Model the activity by gluing the half of the basketball on your paper. Have the students to discuss their prior learning to fill in the decimal and percentage columns of the example.
- You may assign the remaining problems to be completed by the students independently or with a partner while you work with small groups who need additional support.

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

7.NS.5 Extend prior knowledge to translate among multiple representations of rational numbers (fractions, decimal numbers, percentages). Exclude the conversion of repeating decimal numbers to fractions.

Question(s):

- I just cut the basketball down the middle line. What part of the basketball do I have remaining? How do you know this is true?
- Where do you see one half on your sheet?
- What percent of the basketball am I holding?
- How can I convert the visual and fractional representations into a decimal?

Reflection:

• Allow students to reflect on how they may use a visual to determine what percentage, fraction, or decimal is represented.



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Name:	Date:	Period:

Basketball Parts & Wholes

Directions: Fill-in the chart with the appropriate conversions.

Visual	Fraction	Decimal	Percentage
	¹ / ₂		
		0.25	
			100%
		2	
	1 ¹ /4		
		.5	

Fractional Basketballs



Enlarged Teacher Example

