

Worksheet #4

FRAC-PW: Fractions -- Pieces of a Whole



Correct It: How Many Pieces or How Much of a Pizza?

On a test, Musha ran into the following question:

You make a pizza which you cut into six equal pieces. You then eat 5 pieces. How many pieces of pizza did you eat?

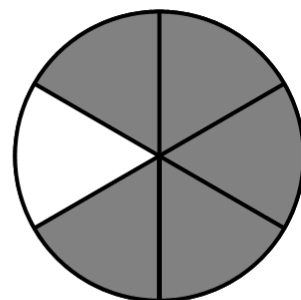
Here is her answer:

Step 1: We'll I have a pizza which I need to cut into 6 equal pieces.

Step 2: So I'm going to use a circle to be my pizza — this is my 'whole pizza'. Then I'm going to 'cut it' into six equal pieces.

Step 3: Then, I ate five pieces so I'm going to shade in 5 of them.

Step 4: So my answer is $\frac{5}{6}$.



NOTE TO TUTOR

Get them to think about 'how much of the pizza did Musha eat' versus 'how many pieces of pizza did Musha eat'.

Come up with other examples and explore them with the student.

Check **each one of Musha's steps**. Explain why it is either right or wrong:

Step 1:

Step 2:

Step 3:

Step 4:

Can you **change the question** so Musha's answer is correct?

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FRAC-PW: Fractions -- Pieces of a Whole

? Questions

Q1 Draw a circle -- use it to represent the fraction $\frac{5}{6}$.

Q2 Ali orders a pizza and cuts it into four pieces. He then eats one. Draw a picture showing how much pizza he has left:

Q3 Sunny drew some pictures to represent fractions below. Are they right or wrong answers? In your own words, explain why or why not. If they are wrong, correct them.

$$\frac{1}{2} = \text{[A square divided into two equal vertical rectangles, with the left rectangle shaded gray.]}$$

$$\frac{4}{5} = \text{[A circle divided into five equal sectors, with four sectors shaded gray.]}$$

$$\frac{1}{6} = \text{[A circle divided into six equal sectors, with one sector shaded gray.]}$$

$$\frac{1}{2} = \text{[A rectangle divided into two equal triangles by a diagonal line from the top-left corner to the bottom-right corner, with the top-right triangle shaded gray.]}$$

$$\frac{3}{4} = \text{[A large triangle divided into four smaller triangles by lines from each vertex to the midpoint of the opposite side, with three of the smaller triangles shaded gray.]}$$

$$\frac{0}{2} = \text{[A rectangle divided into two equal triangles by a diagonal line from the top-left corner to the bottom-right corner, with no triangles shaded gray.]}$$