

HW 1 Discussion

Problems and how to fix them

How to say it (for the fraction 6/8)

<p>The numerator (6)</p> <p>⊘ Don't call it the unit or the unit fraction</p> <p>Do call it:</p> <ul style="list-style-type: none"> ☺ ✓ The number of units ✓ The number of 1/8's ✓ The number of parts or pieces. ✓ 6 parts of size 1/8 	<p>The denominator (8)</p> <p>⊘ Don't say:</p> <ul style="list-style-type: none"> ✗ divide by 8 (or divide 6 by 8) ✗ 6 out of 8 pieces. <p>☺ Do say:</p> <ul style="list-style-type: none"> ✓ Divide 1 whole into 8 equal parts ✓ The unit fraction size is 1/8 ✓ Each part has size 1/8
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1 and 2: Build and describe a fraction

I began by drawing in lines to represent 8 equal pieces of one whole. Each piece was 1/8. I continued to draw in lines until I got to 11 equal pieces each of size 1/8, to create 11/8.

- Describing the units: make ___ equal pieces of 1 whole to make pieces of size 1/___
- Total fraction: make ___ pieces of size ___ to get ___/___

3 and 4: Explain equivalent fractions

First split a rectangle into two equal halves by using a vertical line. Then use 4 horizontal lines to split the rectangle into five equal pieces. Total, there are 10 equal pieces. If you look at the two equal pieces from the vertical split and color 1/2 and color 5/10 of the 10 equal pieces, they will be the same size.

- Explain how to split twice to get the fraction
- Explain how two fractions are equal by comparing their size and how they are made

7a: Compare by size of unit

a. 5/8 and 5/9

- The unit fractions are not equal. 1/8 ≠ 1/9
- 1/8 > 1/9 because in 1/9 the whole is cut into more pieces (than with 1/8) so each piece is smaller.
- The number of units in the fractions are the same - 5 units.
- So 5/8 > 5/9 because while each fraction has the same number of units, each unit in 5/8 is bigger 5 bigger units > 5 smaller units

- Tell which unit fraction is bigger
- Tell why one unit fraction is bigger than the other (making more equal sized pieces out of 1 whole makes each piece smaller)
- Tell how many units each has
- Tell which is bigger in total and why

7c: Compare both unit fraction size and number of units

c. The unit fractions are not the same. It is bigger than 1/9 because if you split a circle into 9 pieces the pieces would be larger than if you split it into 11 pieces. The number of units are also different. 7 > 11 because not only are the individual pieces bigger but there are more of them.

- Tell which unit fraction is bigger
- Tell why one unit fraction is bigger than the other
- Tell how many units each has
- Tell which is bigger in total and why