

DECIMATS

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I am learning to identify equivalent fractions and to name fractions as decimals.

PRIOR KNOWLEDGE REQUIRED:

1) Complete the table by naming the fractions on the last 3 rows.

1 whole									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{3}$			$\frac{1}{3}$			$\frac{1}{3}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$			
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$	
$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$	

2) Use the rods above to help you answer the table below.

Question	Answer	Question	Answer
a) $\frac{1}{2}$ is the same as	$\frac{\dots\dots}{4}$	e) $\frac{2}{6}$ is the same as	$\frac{1}{\dots\dots}$
b) 1 whole is the same as	$\frac{\dots\dots}{5}$	f) $\frac{1}{2}$ is the same as	$\frac{3}{\dots\dots}$
c) $\frac{4}{6}$ is the same as	$\frac{\dots\dots}{3}$	g) $\frac{1}{2}$ is the same as	$\frac{2}{\dots\dots}$
d) $\frac{2}{4}$ is the same as	$\frac{\dots\dots}{6}$	h) $\frac{5}{5}$ is the same as	$\dots\dots\dots$

3) Why could you not answer this question? $\frac{1}{3}$ is the same as $\frac{\dots\dots}{5}$.

NEW STRATEGY USING MATERIALS:

$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$
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4) If you were to cut every $\frac{1}{10}$ into ten pieces what would you have? (hint: how many pieces in total would you have?)

5) If you cut every $\frac{1}{100}$ into 10 pieces what would you have then?

6) Order these fractions from biggest to smallest.

$\frac{1}{10}$, 1 whole , $\frac{1}{1000}$, $\frac{1}{100}$

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NEW STRATEGY USING MATERIALS CONTINUED:

1) Complete this sentence. There are $\frac{\dots}{1000}$ in $\frac{1}{100}$. There are $\frac{\dots}{100}$ in $\frac{1}{10}$. There are $\frac{\dots}{10}$ in 1 whole

NEW STRATEGY USING IMAGING:

You may find it helpful to use the rods on the previous page to answer these questions. Complete the tables. The first one is done for you.

Fraction	Tenths	hundredths	Thousandths
$\frac{2}{5}$	4		
	4	0	
	4	0	0

2) Complete the tables.

Fraction	Tenths	hundredths	Thousandths
$\frac{1}{2}$			

3) Complete the tables.

Fraction	Tenths	hundredths	Thousandths
$\frac{3}{5}$			

WORD PROBLEMS USING NUMBER PROPERTIES:

• Within Fractions $\frac{3}{9} \rightarrow 3 \times 3 = 9$ $\frac{6}{18} \rightarrow 3 \times 6 = 18$

• Between Fractions $\frac{3}{9} = \frac{6}{18} \rightarrow \times 2$. These fractions are equivalent or equal.

4) Bill has $\frac{1}{4}$ of a pizza. How much pizza does he have in eighths?

5) Sue's pizza is cut into 5 pieces and she is allowed 2. Kate's pizza is cut into 15 pieces. She is allowed the same fraction as Sue. How many slices does she have?

6) Adam has 1.25 metres of wood. Kane has $1\frac{1}{2}$ metres of wood. Change Adams amount of wood into a fraction so you can work out who has more wood.