Name: Key	Date: 8/18/17
Topic:	Class:

Main Ideas/Questions	Notes/Examples

PARTS OF A FRACTION

Numerator → $\frac{7}{8}$ ← Denominator

All numbers that can be written as fractions are called **rational numbers**.

SIMPLEST FORM

Reduced form when a fraction has no more common factors.

EXAMPLES

Directions: Write each fraction in simpest form.

1. $\frac{8}{20} \div \frac{4}{4} = \frac{2}{5}$	**2.** $-\frac{6}{18} \div \frac{6}{6} = -\frac{1}{3}$	**3.** $\frac{21}{27} \div \frac{3}{3} = \frac{7}{9}$
4. $-\frac{24}{40} \div \frac{8}{8} = -\frac{3}{5}$	**5.** $-\frac{12}{42} \div \frac{6}{6} = -\frac{2}{7}$	**6.** $\frac{36}{45} \div \frac{9}{9} = \frac{4}{5}$
7. $\frac{16}{56} \div \frac{8}{8} = \frac{2}{7}$	**8.** $\frac{18}{3} = 6$	**9.** $-\frac{8}{28} \div \frac{4}{4} = -\frac{2}{7}$

IMPROPER FORM

a fraction when a numerator is greater than the denominator

MIXED NUMBERS

a fraction that includes a whole number

EXAMPLES

Directions: Write each improper fraction as a mixed number.

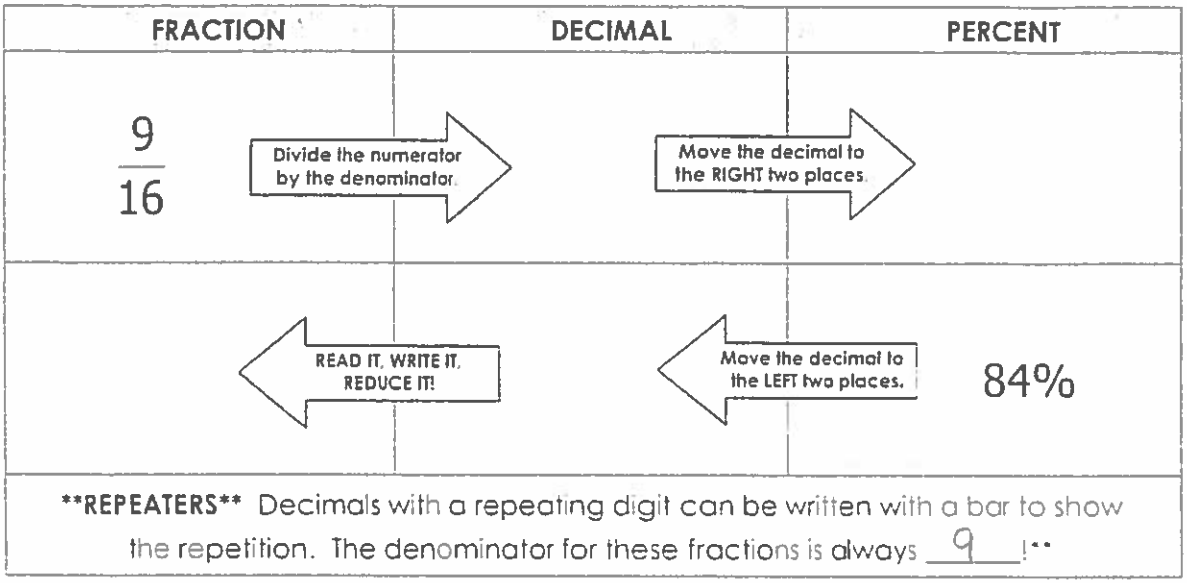
10. $\frac{19}{6} = 3\frac{1}{6}$	**11.** $-\frac{26}{3} = -8\frac{2}{3}$	**12.** $\frac{17}{2} = 8\frac{1}{2}$
13. $\frac{21}{4} = 5\frac{1}{4}$	**14.** $\frac{7}{3} = 2\frac{1}{3}$	**15.** $-\frac{35}{8} = -4\frac{3}{8}$

Directions: Write each mixed number as an improper fraction.

16. $3\frac{1}{5} = \frac{16}{5}$	**17.** $7\frac{2}{3} = \frac{23}{3}$	**18.** $-1\frac{9}{10} = -\frac{19}{10}$
19. $-2\frac{11}{13} = -\frac{37}{13}$	**20.** $-4\frac{3}{7} = -\frac{31}{7}$	**21.** $10\frac{1}{8} = \frac{81}{8}$

CONVERTING

Fractions-Decimals-Percents



REPEATERS Decimals with a repeating digit can be written with a bar to show the repetition. The denominator for these fractions is always 9 !**

PRACTICE! Complete the chart below.

FRACTION	DECIMAL	PERCENT
$\frac{9}{20}$	0.45	45%
$\frac{1}{20}$	0.05	5%
$\frac{13}{50}$	0.26	26%
$\frac{11}{28}$	0.39	39%
$\frac{19}{50}$	0.38	38%
$1\frac{1}{9}$	$1.\overline{1}$	$111.\overline{1}\%$
$\frac{7}{10}$	0.7	70%
$\frac{4}{5}$	0.8	80%
$\frac{24}{25}$	0.96	96%
$1\frac{12}{25}$	1.48	148%
$\frac{5}{9}$	$0.\overline{5}$	$55.\overline{5}\%$
$2\frac{1}{3}$	$2.\overline{3}$	$233.\overline{3}\%$