

Warm up

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Convert each fraction to a decimal.

$$\frac{3}{8} \quad 0.\underline{3}75 \quad \frac{4}{9} \quad 0.\underline{4}$$
$$\frac{2}{7} \quad 0.\underline{2}85714 \quad \frac{3}{5} \quad 0.6$$

$$\frac{2}{7}, \frac{3}{8}, \frac{4}{9}, \frac{3}{5}$$

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CONVERTING

Fractions-Decimals-Percents

FRACTION	DECIMAL	PERCENT
$\frac{9}{16}$	$16 \overline{)9} \rightarrow .5625$	56.25%
$\frac{84}{100} = \frac{21}{25}$	0.84	84%

Divide the numerator by the denominator.
 Move the decimal to the RIGHT two places.
 READ IT, WRITE IT, REDUCE IT!
 Move the decimal to the LEFT two places.

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

$\overline{.4}$

PRACTICE! Complete the chart below.

FRACTION	DECIMAL	PERCENT
$\frac{9}{20}$	$.45$	45%
$\frac{1}{20}$	$.05$	5%
$\frac{13}{50}$	0.26	26%
$\frac{11}{28}$	$.3929$	39.29%
$\frac{19}{50}$	$.38$	38%
$1\frac{1}{9}$	$1.\overline{1}$	$111.\overline{1}\%$
$\frac{7}{10}$	0.7	70%
$\frac{4}{5}$	$.8$	80%
$\frac{24}{25}$	$.96$	96%
$1\frac{1}{2}$	1.48	148%
$\frac{5}{9}$	$.\overline{5}$	$55.\overline{5}\%$
$2\frac{1}{3}$	$2.\overline{3}$	$233.\overline{3}\%$

$\overline{.05}$

$\frac{1}{3} = 0.\overline{3}$ $233.\overline{3}$

$$\frac{26}{100}$$

$$2 \overline{) 26,100}$$
$$13,50$$

$$\frac{13}{50}$$

When comparing and ordering fractions, decimals and percents first write each value as an equivalent decimal.

$$\frac{9}{20} \quad 0.45 \quad 0.26 \quad 38\% \quad 0.38$$

$0.26, 38\%, \frac{9}{20}$

Compare the decimal values and write the original numbers in order from least to greatest.

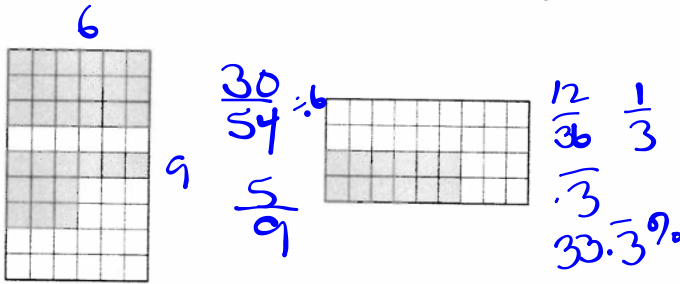
$$\begin{array}{r} 3, 5, 15 \\ 6, 10, \underline{15} \\ 9, \underline{15} \\ 12, 20 \\ \underline{15} \end{array}$$

$$\begin{array}{r} 3 \overline{) 15, 45} \\ \times 5 \overline{) 5, 15} \\ 1, 3 \\ 15 \times 3 = 45 \end{array}$$

Name _____ Date _____ Bell _____

Dare To Compare! p.40

Calculate the fraction, decimal and percent for each of the shaded or "x" portions.



Order the numbers from least to greatest.

1) 0.32, $\frac{3}{10}$, 31%

2) $\frac{9}{10}$, 98%, 0.92

3) 42%, $\frac{4}{9}$, 0.04

4) 0.62, $\frac{6}{10}$, 63.1%

5) $\frac{2}{3}$, 75%, 0.738

6) $\frac{6}{8}$, 0.68, 0.068

Use the following symbols to compare each pair <, >, =

$\frac{2}{5} < 60\%$

$80\% > 0.67$

$\frac{4}{5} < 0.89$

$0.25 = \frac{1}{4}$

$1.25 < 148\%$

$\frac{2}{3} > 59\%$

Place in order from least to greatest

$\frac{1}{2}$ 0.75 29% 1.45 130% $\frac{8}{10}$

29% $\frac{1}{2}$ 0.75 $\frac{8}{10}$ 130% 1.45

IXL Review Add and Subtract Integers

7th Grade Lesson C.2, C.3

Compare and Order Rational Numbers

6th Grade Lesson P.1, P.2

\$+¢-x÷=\$+¢-x÷=\$+¢-x÷=\$+¢-x÷=\$

Improper Fractions and Mixed Numbers

Improper Fraction to Mixed Number

In an Improper fraction, the numerator is larger than the denominator.
To write an improper fraction as a mixed number, divide.

$$\frac{31}{6} = 31 \div 6 = 5 \frac{1}{6}$$

$6 \overline{)31}$
 $\underline{-30}$
 1

\leftarrow remainder
 \leftarrow divisor



Mixed Number to Improper Fraction

A mixed number has a whole number part and a fraction part.
It can be written as an Improper fraction by multiplying and adding.

$$7 \frac{3}{4} \times$$

$4 \times 7 = 28$ Multiply denominator by whole number.
 $28 + 3 = 31$ Add the numerator to this product.
 $\frac{31}{4}$ Write this sum over the denominator.

Write as mixed numbers.

1. $\frac{42}{5}$

2. $\frac{83}{4}$

3. $\frac{46}{7}$

4. $\frac{57}{8}$

5. $\frac{63}{10}$

6. $\frac{29}{12}$

7. $\frac{58}{5}$

8. $\frac{76}{3}$

9. $\frac{95}{11}$

Write as improper fractions.

10. $5 \frac{2}{7}$

11. $4 \frac{11}{12}$

12. $6 \frac{3}{8}$

13. $1 \frac{1}{2}$

14. $30 \frac{4}{5}$

15. $15 \frac{2}{3}$

16. $25 \frac{2}{5}$

17. $16 \frac{5}{8}$

18. $33 \frac{1}{3}$

$$\begin{array}{l} 1) \quad \frac{42}{5} \qquad \begin{array}{r} 8 \\ 5 \overline{)42} \\ \underline{-40} \\ 2 \end{array} \qquad 8\frac{2}{5} \end{array}$$
$$\begin{array}{l} 2) \quad \frac{83}{4} \qquad \begin{array}{r} 20 \\ 4 \overline{)83} \\ \underline{-8} \\ 03 \\ \underline{-0} \\ 3 \end{array} \qquad 20\frac{3}{4} \end{array}$$

$$10) \quad 5\frac{2}{7} \quad \frac{37}{7}$$

$$11) \quad 4\frac{11}{12} \quad \frac{59}{12}$$

Math IF5112

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Game, Set, Match

Match the improper fractions and the mixed numbers by drawing lines to those that are equivalent.

Improper Fractions and Mixed Numbers



Extra Practice IXL

6th grade Lesson P.1, P.2