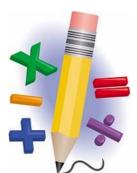
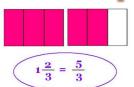


Unit 3



Operations with Fractions



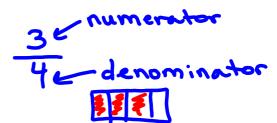
$$\frac{24}{32}X\frac{4}{7} = ???$$

Grade 7 Review of fraction sheet Solutions

Fractions

What is a fraction?

A fraction shows a part of the whole.



It contains 2 parts, the numerator and the denominator.

The numerator is the top number and it tells you how many pieces you have.

The denominator is the bottom number and it tells you how many pieces the whole is divided into.

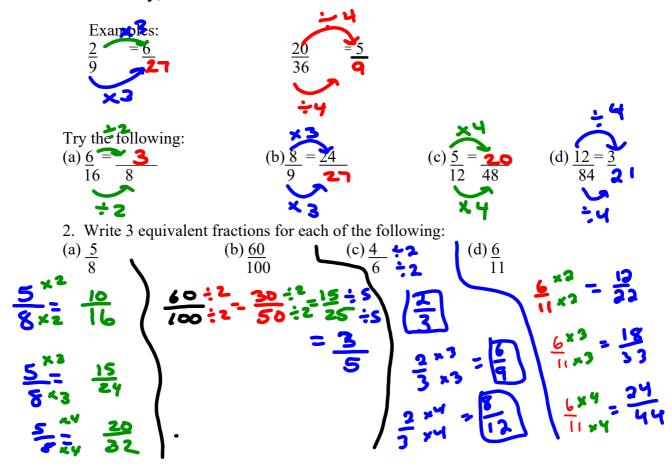
Example: $\frac{7}{8}$

e whole cut

3

Equivalent Fractions/ Reducing Fractions

- *To get equivalent fractions, multiply (or divide) both the numerator and denominator by the same number.
- *When reducing fractions, divide both the numerator and denominator by the same number. If there is no number that the numerator and denominator can be divided by, then the fraction is in lowest terms.



Write an equivalent fraction with a denominator of 10, 100 or 1000. Then rewrite as a decimal.

a)
$$\frac{4}{5} \cdot \frac{8}{10}$$
 b) $\frac{10}{25} \times 4 = \frac{40}{100}$ c) $\frac{6}{200} \times 5 = \frac{30}{1000}$

8 tenths

0.9

12 tenths

1.2

9.9

Class/Homework

$$\frac{3}{5} = \frac{6}{10} = 0.6$$



Sheet 137

1)	For each fraction, write an equivalent fraction with denominator	10,	100,	or 1	000.	Then,	write t	the
	fraction as a decimal.	-	_					

a)
$$\frac{4}{5} \times 2$$
 b) $\frac{3}{50} > \frac{1}{100}$ c) $\frac{7}{20}$

a)
$$\frac{2}{3} = \frac{\Box}{9}$$
 b) $\frac{3}{4} = \frac{12}{\Box}$ c) $\frac{12}{10} = \frac{\Box}{5}$ d) $\frac{30}{40} = \frac{15}{\Box}$ e) $\frac{5}{5} = \frac{15}{\Box}$ f) $\frac{15}{10} = \frac{3}{\Box}$

- 4) For each of the following write 3 more equivalent fractions (Show work)
 - a) $\frac{1}{2}$
 - b) $\frac{3}{4}$
 - c) $\frac{7}{5}$
 - d) $\frac{1}{2}$
 - e) $\frac{3}{10}$
 - f) $\frac{4}{1}$
 - g) $\frac{2}{5}$
 - h) $\frac{4}{3}$

- a) $\frac{3}{12}$ b) $\frac{8}{20}$ c) $\frac{6}{16}$ d) $\frac{12}{64}$ e) $\frac{24}{80}$ f) $\frac{15}{348}$ g) $\frac{10}{5}$ h) $\frac{75}{100}$

For each of the following scenarios write a fractions and REDUCE to lowest terms.

6) 32 students in total and 12 students do not like pizza. Write a fraction for those that LIKE pizza.

- 7) a) 4 eggs as a fraction of a dozen
 - b) 15 minutes as a fraction of a hour.
- c) 25 cents as a fraction of a dollar.
- 8) For each of the following find the equivalent fraction

a)
$$\frac{5}{8} = \frac{13}{32}$$

b)
$$\frac{9}{16} = \frac{100}{64}$$

c)
$$\frac{1}{2} = \frac{\Box}{30}$$

d)
$$\frac{3}{4} = \frac{13}{13}$$

e)
$$\frac{7}{9} = \frac{\Box}{27}$$

f)
$$\frac{20}{24} = \frac{5}{6}$$

a)
$$\frac{5}{8} = \frac{\Box}{32}$$
 b) $\frac{9}{16} = \frac{\Box}{64}$ c) $\frac{1}{2} = \frac{\Box}{30}$ d) $\frac{3}{4} = \frac{\Box}{12}$ e) $\frac{7}{9} = \frac{\Box}{27}$ f) $\frac{20}{24} = \frac{5}{6}$ h) $\frac{7}{8} = \frac{42}{\Box}$ j) $\frac{2}{3} = \frac{\Box}{15}$

$$\frac{1}{2} = \frac{1}{15}$$

$$j) \frac{6}{9} = \frac{\Box}{16}$$

$$k)\frac{100}{100} = \frac{1}{20}$$

$$\frac{45}{300} = \frac{\Box}{100}$$

m)
$$\frac{2}{1} = \frac{32}{1}$$

$$\frac{1}{1} = \frac{4}{2}$$
 o)

$$j)\,\frac{6}{8} = \,\frac{\Box}{16} \qquad k)\,\frac{\Box}{100} = \,\frac{1}{20} \qquad l)\,\,\frac{45}{300} = \,\frac{\Box}{100} \quad m)\,\frac{2}{1} = \,\frac{32}{} \qquad n)\,\frac{8}{\Box} = \,\frac{4}{2} \qquad o)\,\frac{5}{6} = \,\frac{\Box}{24} \qquad p)\,\frac{1}{23} = \,\frac{\Box}{20} \quad q)\,\frac{6}{6} = \,\frac{\Box}{36}$$

$$r)\frac{30}{40} = \frac{11}{300}$$

$$s)\frac{3}{9} = \frac{30}{100}$$

t)
$$\frac{1}{16} = \frac{2}{3}$$

$$V)\frac{8}{14}=\frac{1}{84}$$

r)
$$\frac{30}{40} = \frac{\Box}{200}$$
 s) $\frac{3}{8} = \frac{30}{\Box}$ t) $\frac{\Box}{16} = \frac{2}{8}$ u) $\frac{7}{1} = \frac{\Box}{3}$ v) $\frac{8}{14} = \frac{\Box}{84}$ w) $\frac{5}{50} = \frac{\Box}{100}$ x) $\frac{2}{21} = \frac{6}{63}$

$$(x)^{\frac{2}{2}} = \frac{1}{2}$$

Sheet 137 Equivalent Fractions.docx

Solutions Grade 8 Review of fractions PRE TEST (Gr 7 fraction test).doc