

# Fractions Review

February-11-19 9:58 AM

\* Refer to the extra handout "Fractions Review" for definitions and other information.

Ex. Reduce to lowest terms:

$$a) \frac{24 \div 6}{30 \div 6} = \frac{4}{5}$$

$$b) \frac{48 \div 12}{72 \div 12} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

$$c) \frac{63 \div 9}{99 \div 9} = \frac{7}{11}$$

Ex. Convert to an improper fraction:

$$a) 5 \frac{2}{3} \quad 5 \frac{2}{3} = \frac{3 \times 5 + 2}{3} = \frac{17}{3} \quad \leftarrow \text{same denominator}$$

$$b) 4 \frac{1}{6} \quad 4 \frac{1}{6} = \frac{6 \times 4 + 1}{6} = \frac{25}{6}$$

Ex. Convert to a mixed fraction:

$$a) \frac{35}{8} \quad \text{Think: } 8, 16, 24, 32, \cancel{40} \text{ Too big}$$

$\uparrow$   
 $8 \times 4 = 32 = \underline{4} \text{ whole groups}$

$$\frac{35 - 32}{8} = 4 \frac{3}{8}$$

$$b) \frac{30}{9} \quad \text{Think: } 9, 18, 27, \cancel{36} \text{ Too big!}$$

$\xrightarrow{\text{Reduce}}$

$$\frac{30 - 27}{9} = 3 \frac{3 \div 3}{9 \div 3} = 3 \frac{1}{3}$$