

Fractions and Decimals



Overview of problems



Example Set: A

Write each fraction as a decimal.

$$\frac{2}{5}$$

$$\frac{1}{9}$$

$$\frac{7}{13}$$

$$3\frac{2}{7}$$



Example Set: B

Write each decimal as fraction or mixed number.

$$.3$$

$$1.42$$

$$.26$$

$$5.\overline{6}$$



Example Set: C

Write each fraction in simplest form (reduce).

$$\frac{2}{8}$$

$$\frac{9}{30}$$

$$\frac{14}{20}$$

$$\frac{16}{50}$$

$$\frac{17}{32}$$

$$\frac{1}{10}$$

$$\frac{64}{120}$$

$$\frac{96}{520}$$



Example Set: D

Answer the following.

Approximately 22 out of 30 teachers have a masters degree. Express this relationship as a fraction in simplest form and a decimal.



In a business .68 of the total work force gets paid overtime. If the total number of workers is 400, express the relationship of paid workers that earn overtime as a fraction in simplest form.



Overview of problems- KEY



Example Set: A

Write each fraction as a decimal.

$$\frac{2}{5} = .4$$

$$\frac{1}{9} = .\overline{1}$$

$$\frac{7}{13} = .5384$$

$$3\frac{2}{7} = 3.285$$



Example Set: B

Write each decimal as fraction or mixed number.

$$.3 = \frac{3}{10}$$

$$1.42 = 1\frac{21}{50}$$

$$.26 = \frac{13}{50}$$

$$5.\overline{6} = 5\frac{2}{3}$$



Example Set: C

Write each fraction in simplest form (reduce).

$$\frac{2}{8} = \frac{1}{4}$$

$$\frac{9}{30} = \frac{3}{10}$$

$$\frac{14}{20} = \frac{7}{10}$$

$$\frac{16}{50} = \frac{8}{25}$$

$$\frac{17}{32} = \frac{17}{32}$$

$$\frac{1}{10} = \frac{1}{10}$$

$$\frac{64}{120} = \frac{8}{15}$$

$$\frac{96}{520} = \frac{12}{65}$$



Example Set: D

Answer the following.

Approximately 22 out of 30 teachers have a masters degree. Express this relationship as a fraction in simplest form and a decimal.



$$\frac{11}{15} = .733$$

In a business .68 of the total work force gets paid overtime. If the total number of workers is 400, express the relationship of paid workers that earn overtime as a fraction in simplest form.



$$\frac{17}{25}$$