

Name _____

Class _____

Date _____

Worksheet on Simplifying Fractions

Question 1

Complete these equivalent fractions.

a

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

Diagram: A circular arrow from the denominator 2 to the numerator 1 is labeled $\times 3$. Another circular arrow from the denominator box to the numerator box is labeled $\times 3$.

.....

b

$$\frac{5}{6} = \frac{\boxed{}}{\boxed{}}$$

Diagram: A circular arrow from the denominator 6 to the numerator 5 is labeled $\times 4$. Another circular arrow from the denominator box to the numerator box is labeled $\times 4$.

.....

c

$$\frac{6}{10} = \frac{\boxed{}}{\boxed{}}$$

Diagram: A circular arrow from the denominator 10 to the numerator 6 is labeled $\div 2$. Another circular arrow from the denominator box to the numerator box is labeled $\div 2$.

.....

d

$$\frac{20}{25} = \frac{\boxed{}}{\boxed{}}$$

Diagram: A circular arrow from the denominator 25 to the numerator 20 is labeled $\div 5$. Another circular arrow from the denominator box to the numerator box is labeled $\div 5$.

.....

Question 2

Simplify these fractions.

a

$$\frac{30}{40} = \frac{\boxed{}}{\boxed{}}$$

Diagram: A circular arrow from the denominator 40 to the numerator 30 is labeled $\div 10$. Another circular arrow from the denominator box to the numerator box is labeled $\div 10$.

.....

b

$$\frac{20}{50} = \frac{\boxed{}}{\boxed{}}$$

.....

c

$$\frac{25}{30} = \frac{\boxed{}}{\boxed{}}$$

Diagram: A circular arrow from the denominator 30 to the numerator 25 is labeled $\div 5$. Another circular arrow from the denominator box to the numerator box is labeled $\div 5$.

.....

d

$$\frac{20}{55} = \frac{\boxed{}}{\boxed{}}$$

.....

Question 3

Write each fraction in its simplest form.

- | | | | |
|--------------------------|-------|---------------------------|-------|
| a $\frac{10}{12}$ | | b $\frac{5}{20}$ | |
| c $\frac{12}{20}$ | | d $\frac{60}{100}$ | |

Question 4

Write these improper fractions as mixed numbers.

- | | | | |
|-------------------------|-------|-------------------------|-------|
| a $\frac{4}{3}$ | | b $\frac{14}{5}$ | |
| c $\frac{17}{6}$ | | d $\frac{13}{8}$ | |