

Name: _____

Simplifying Fractions

To simplify a fraction, divide the numerator and the denominator by the greatest common factor.

example: Simplify the fraction $\frac{18}{27}$

The greatest common factor of 18 and 27 is 9.

Divide the numerator and the denominator by 9.

$$\frac{18}{27} \div \frac{9}{9} = \frac{2}{3}$$



Simplify each fraction.

a. $\frac{4}{20} =$

b. $\frac{5}{10} =$

c. $\frac{14}{21} =$

d. $\frac{9}{15} =$

e. $\frac{16}{24} =$

f. $\frac{18}{48} =$

g. $\frac{16}{44} =$

h. $\frac{9}{21} =$

i. $\frac{25}{30} =$

j. $\frac{8}{22} =$

k. $\frac{12}{30} =$

l. $\frac{5}{20} =$

- m. There are 36 students in Frank's class. 27 of them are buying lunch today. Write and simplify the fraction of students that are buying lunch.
- _____

ANSWER KEY

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Simplify each fraction.

a. $\frac{4}{20} = \frac{1}{5}$

b. $\frac{5}{10} = \frac{1}{2}$

c. $\frac{14}{21} = \frac{2}{3}$

d. $\frac{9}{15} = \frac{3}{5}$

e. $\frac{16}{24} = \frac{2}{3}$

f. $\frac{18}{48} = \frac{3}{8}$

g. $\frac{16}{44} = \frac{4}{11}$

h. $\frac{9}{21} = \frac{3}{7}$

i. $\frac{25}{30} = \frac{5}{6}$

j. $\frac{8}{22} = \frac{4}{11}$

k. $\frac{12}{30} = \frac{2}{5}$

l. $\frac{5}{20} = \frac{1}{4}$

- m. There are 36 students in Frank's class. 27 of them are buying lunch today. Write and simplify the fraction of students that are buying lunch.

$$\frac{27}{36} = \frac{3}{4}$$