

Practice Exercises for Chapter 10 – Rational Numbers

Set A

Equivalence Sets

1. Fill in the missing numerators:

a. $\frac{1}{2} = \frac{\quad}{4} = \frac{\quad}{10} = \frac{\quad}{20} = \frac{\quad}{30} = \frac{\quad}{100}$

b. $\frac{3}{5} = \frac{\quad}{10} = \frac{\quad}{20} = \frac{\quad}{40} = \frac{\quad}{60} = \frac{\quad}{100}$

c. $\frac{1}{8} = \frac{\quad}{16} = \frac{\quad}{32} = \frac{\quad}{40} = \frac{\quad}{64} = \frac{\quad}{80}$

d. $\frac{5}{8} = \frac{\quad}{16} = \frac{\quad}{32} = \frac{\quad}{40} = \frac{\quad}{64} = \frac{\quad}{80}$

e. $\frac{2}{3} = \frac{\quad}{12} = \frac{\quad}{15} = \frac{\quad}{24} = \frac{\quad}{30} = \frac{\quad}{60}$

Lowest Terms

2. Reduce to lowest terms:

a. $\frac{12}{16}$

b. $\frac{12}{18}$

c. $\frac{12}{24}$

d. $\frac{9}{36}$

e. $\frac{30}{40}$

f. $\frac{18}{36}$

g. $\frac{45}{100}$

h. $\frac{45}{50}$

i. $\frac{36}{72}$

j. $\frac{56}{64}$