Get Ready

Identify Multiples

The first five **multiples** of 2 are 2, 4, 6, 8, and 10.
Each multiple is the product of 2 and a natural number.

$2 \times 1 = 2$ $2 \times 2 = 4$ $2 \times 3 = 6$
$2 \times 4 = 8$ $2 \times 5 = 10$

Natural numbers are 1, 2, 3, and so on.

1. What are the first three multiples of each of the following numbers?

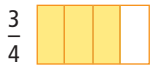
a) 3 **b)** 4 **c)** 5
d) 8 **e)** 12 **f)** 10

2. Which of the following numbers is not a multiple of 6?

6 48 18 40 24

Write Fractions

$\frac{3}{4}$ is a fraction, sometimes called a **proper fraction**.
Its numerator is less than its denominator.



$\frac{5}{3}$ is an **improper fraction**.
Its numerator is greater than its denominator.

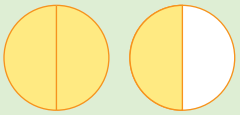
$1\frac{2}{3}$ is a **mixed number**.
It is made up of a whole number and a fraction.

$\frac{5}{3} = 1\frac{2}{3}$

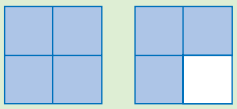
$\frac{5}{3} = 5 \div 3$
$= 1$, with 2 of 3 parts left over
$= 1\frac{2}{3}$

3. Write an improper fraction and a mixed number for each diagram.

a)



b)



c)

4. Draw a diagram to represent each of the following.

a) $2\frac{1}{2}$ **b)** $\frac{1}{4}$
c) $\frac{8}{5}$ **d)** $1\frac{3}{4}$

5. Identify each item in #4 as a proper fraction, an improper fraction, or a mixed number.

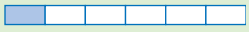
Identify and Order Unit Fractions

Unit fractions have a numerator of 1. Some examples of unit fractions are $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, and $\frac{1}{5}$.

6. Identify the unit fraction shown by each fraction strip.

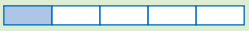
a) 

b) 

c) 

d) 

e) 

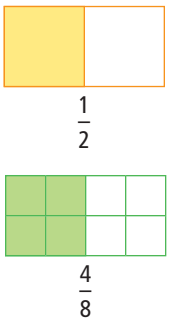
f) 

7. a) List the unit fractions in #6 in order from least to greatest.

b) Copy the following statement about unit fractions. Fill in the blanks with *larger* or *smaller*:
The ■ the denominator, the ■ the value of the unit fraction.

Equivalent Fractions

Equivalent fractions represent the same part of the whole or group. $\frac{4}{8}$ and $\frac{1}{2}$ are equivalent fractions.

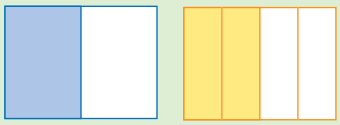


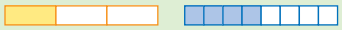
An equivalent fraction is in lowest terms when the numerator and denominator have no common factors other than 1.

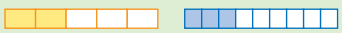
$\frac{8}{12} = \frac{2}{3}$ ($\div 4$ on both terms)

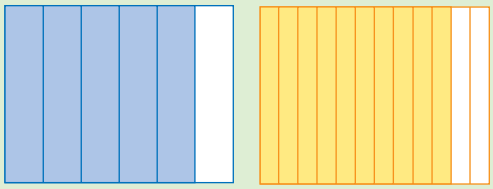
$\frac{2}{3}$ is in lowest terms.

8. Name the fractions. Then identify which pairs are equivalent.

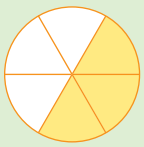
a) 

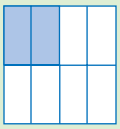
b) 

c) 

d) 

9. Name the fraction shaded in each diagram. Draw a diagram to show an equivalent fraction for each. Then write the equivalent fraction.

a) 

b) 

10. Which of these fractions are *not* in lowest terms? How do you know?

a) $\frac{2}{4}$ **b)** $\frac{1}{4}$ **c)** $\frac{3}{8}$ **d)** $\frac{2}{10}$

e) $\frac{3}{15}$ **f)** $\frac{9}{16}$ **g)** $\frac{6}{9}$ **h)** $\frac{14}{18}$