

Warm up Grade 6

Date: Dec 11

Chapter 5
Lesson 1 Day 1

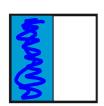
Color the cookie to show the equivalent fraction. Write out the fraction each picture shows.



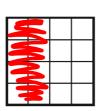


 $1. \frac{2}{4} = \frac{4}{8}$

Color each shape to show an equivalent fraction. Write the fraction each shape shows.



=



 $2.\frac{1}{2} = \frac{8}{16}$





3. $\frac{1}{7} = \frac{3}{6}$

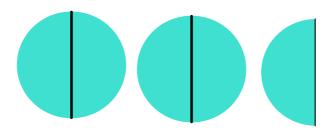


=



 $4. \frac{1}{9} = \frac{2}{8}$

A <u>mixed number</u> is a combination of a whole number and a fraction.

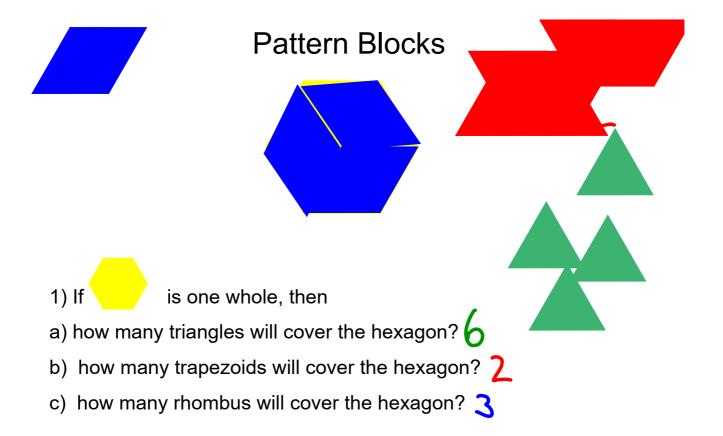


There are whole circles and of another circle.

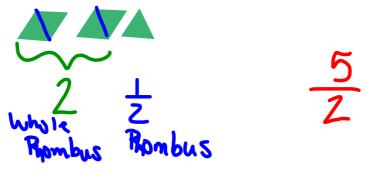
2/2

There are $2\frac{1}{2}$ circles shown.

 $2\frac{1}{2}$ is a mixed number.



If this is 1 whole, then what would the following be?





Mixed Numbers Fractions with Pattern Blocks

Connect

You can use whole numbers and fractions to describe amounts greater than 1.

Suppose the red trapezoid is 1 whole.



Three green triangles cover the trapezoid. So, each green triangle represents $\frac{1}{3}$.

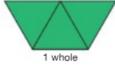


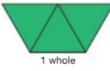
Then, eight green triangles represent $\frac{8}{3}$.

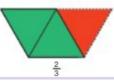


3

These triangles can be grouped to show that $\frac{8}{3}$ is equal to 2 and $\frac{2}{3}$.







We write 2 and $\frac{2}{3}$ as $2\frac{2}{3}$.

 $\frac{8}{3}$ and $2\frac{2}{3}$ represent the same amount. They are equivalent.

$$\frac{8}{3} = 2\frac{2}{3}$$

The numerator, 8, of $\frac{8}{3}$ is greater than the denominator, 3. So, we call $\frac{8}{3}$ an **improper fraction**.

 $2\frac{2}{3}$ has a whole number part, 2, and a fraction part, $\frac{2}{3}$. So, we call $2\frac{2}{3}$ a **mixed number**.



Study Improper Fractions



a fraction in which the numerator is greater than the denominator,

5 Example) Numerator

> Denominator
>
> bottom # 4 tells me what
> my whole
> is cut into

 $\frac{1}{4} = \frac{5}{4} Improper$ |Whole 4| = |4| Mixed

Spieces

2 whole circles and 3 - what makes a whole ixed

7 1

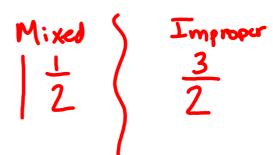
Mixed 13

7 — individual Smull pieces 3 — what makes a whole.

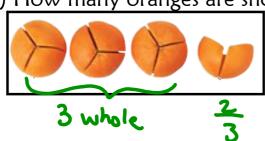
You Try

1) How many fruit bars are shown?

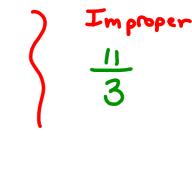




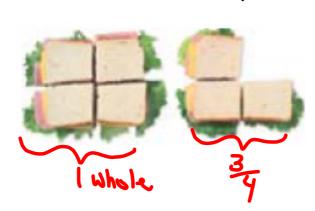
2) How many oranges are shown? Mixed



 $\frac{2}{3}$

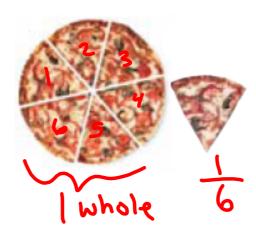


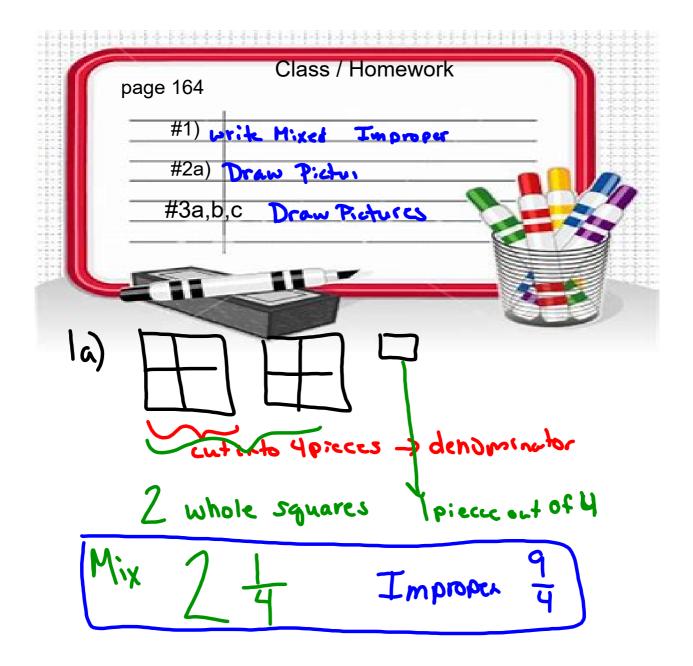
3) Write a mixed number for each picture.



Mixed $\frac{3}{4}$ $\frac{7}{4}$

4) Write a mixed number for each picture.





Practice

1. Describe each picture as an improper fraction and as a mixed number.











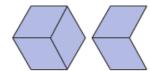


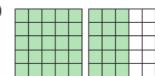
d)











Chapter 5 Fractions Ratios Percents Lesson 1 Mixed Fractions day 1 Oked exetelber old, 2019

2. a) Match each improper fraction with a mixed number. Draw pictures to record your work.

b) Draw a picture to show an improper fraction for each mixed number that did not match.

- 3. Use Pattern Blocks. Are the numbers in each pair equivalent? Show your work. a) $3\frac{2}{3}$ and $\frac{11}{3}$ b) $\frac{8}{6}$ and $1\frac{1}{6}$ c) $2\frac{1}{2}$ and $\frac{5}{2}$

4. Which scoop would you use to measure each amount? How many of that scoop would you need?



The Fernandez family drank 3¹/₂ pitchers of water on a picnic.
 Draw pictures to show the amount, then write this mixed number as an improper fraction. Show your work.



6. Kendra mowed her lawn for 2½ h. Mario mowed his lawn for ¼ h, then stopped. He did this 7 times. Who spent more time mowing the lawn? How do you know?



7. Carlo baked pies for a party. He cut some pies into 6 pieces and some into 8 pieces. After the party, more than 2½ but less than 3 pies were left. How much pie might have been left? Show how you know.

Renée was making crepes by the dozen.
 Renée's family ate 2¹/₃ dozen crepes.
 How many crepes did they eat? Show your work.

9. How can you find out if $2\frac{1}{2}$ and $\frac{10}{4}$ name the same amount? Use words, numbers, and pictures to explain.