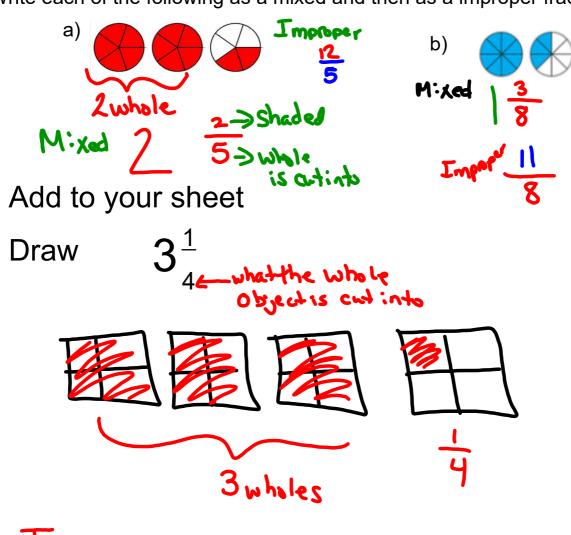
Quiz Thursday Dec. 19

Warm up Grade 6
Date Dec. 16

Chapter 5
Lesson 2 Day 1

Write each of the following as a mixed and then as a improper fraction.



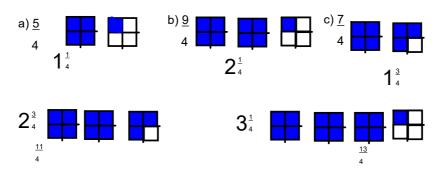
Improper 13

Chapter 5 Fractions Ratios Percents Lesson 2 Convert Mixed Improper de Convert Mixed Improper de

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.

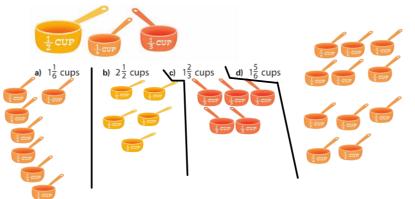


3. Use Pattern Blocks. Are the numbers in each pair equivalent? Show your work.

Yes

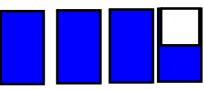
(a) $3\frac{2}{3}$ and $\frac{11}{3}$ (b) $\frac{8}{6}$ and $1\frac{1}{6}$ (c) $2\frac{1}{2}$ and $\frac{5}{2}$ Yes

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.





7

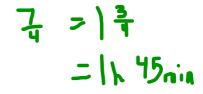
6. Kendra mowed her lawn for $2\frac{1}{2}$ h.

Mario mowed his lawn for $\frac{1}{4}$ h, then stopped. He did this 7 times.

Who spent more time mowing the lawn?

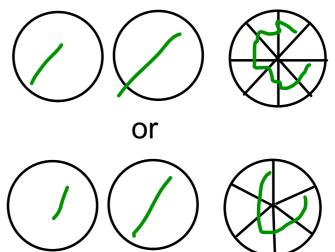
How do you know?

Kendra spent more

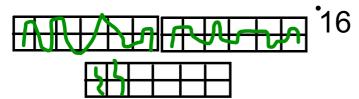




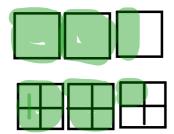
7. Carlo baked pies for a party. He cut some pies into 6 pieces and some into 8 pieces. After the party, more than 2½ but less than 3 pies were left. How much pie might have been left? Show how you know.



8. Renée was making crepes by the dozen. Renée's family ate $2\frac{1}{3}$ 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.



Converting	Fractions	(A)
Converting	Tractions	(**)

Name:

Date:

Convert each mixed fraction to an improper fraction.

$$9\frac{1}{9} = \frac{82}{9}$$

$$3\frac{8}{9} = \frac{35}{9}$$

$$3\frac{8}{9} = \frac{35}{9}$$
 $8\frac{7}{12} = \frac{103}{11}$

$$7\frac{7}{9} = \frac{70}{4}$$

$$3\frac{11}{15} = \frac{56}{10}$$
 $3\frac{2}{5} = \frac{17}{5}$ $4\frac{2}{7} = \frac{36}{7}$

$$3\frac{2}{5} = \frac{17}{5}$$

$$4\frac{2}{7} = \frac{30}{7}$$

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

$$5\frac{1}{7} = 24$$

$$2\frac{7}{10} = \frac{1}{10}$$

$$3\frac{4}{5} = \frac{19}{5}$$

$$5\frac{1}{7} = \frac{31}{10}$$
 $2\frac{7}{10} = \frac{17}{10}$ $3\frac{4}{5} = \frac{19}{5}$ $4\frac{5}{7} = \frac{36}{7}$

$$3\frac{3}{8} = \frac{27}{8}$$

$$6\frac{1}{8} = \frac{49}{8}$$

$$5\frac{5}{6} = \frac{35}{6}$$

$$3\frac{3}{8} = \frac{27}{8}$$
 $6\frac{1}{8} = \frac{49}{8}$ $5\frac{5}{6} = \frac{35}{6}$ $7\frac{4}{15} = \frac{109}{15}$

$$4\frac{2}{9} = \frac{3}{6}$$
 $9\frac{1}{6} = \frac{5}{6}$ $7\frac{5}{8} = \frac{61}{4}$ $1\frac{5}{9} = \frac{14}{9}$

$$9\frac{1}{6} = \frac{55}{6}$$

$$7\frac{5}{8} = \frac{61}{8}$$

$$1\frac{5}{9} = \frac{14}{9}$$

$$6\frac{4}{7} = \frac{4}{7}$$

$$6\frac{4}{7} = \frac{4}{7}$$
 $8\frac{7}{15} = \frac{127}{15}$ $6\frac{1}{5} = \frac{31}{5}$ $8\frac{1}{12} = \frac{97}{11}$

$$6\frac{1}{5} = \frac{31}{5}$$

$$8\frac{1}{12} = \frac{97}{11}$$

$$8\frac{1}{15} = 13$$

$$7\frac{5}{12} = \frac{50}{12}$$

$$1\frac{3}{10} = \frac{15}{10}$$

$$8\frac{1}{15} = \frac{11}{15}$$
 $7\frac{5}{12} = \frac{80}{11}$ $1\frac{3}{10} = \frac{15}{10}$ $6\frac{8}{15} = \frac{96}{15}$

$$1\frac{9}{10} = \frac{\mathbf{I} \mathbf{q}}{\mathbf{I} \mathbf{o}}$$

$$1\frac{9}{10} = \frac{19}{10}$$
 $4\frac{6}{7} = \frac{34}{7}$ $1\frac{1}{4} = \frac{1}{12}$ $1\frac{11}{12} = \frac{3}{12}$

$$1\frac{1}{4} =$$

$$1\frac{11}{12} = \frac{15}{12}$$

$$3\frac{4}{9} = \frac{51}{9}$$

$$3\frac{4}{9} = \frac{31}{9}$$
 $3\frac{1}{10} = \frac{31}{10}$ $2\frac{1}{2} = \frac{5}{3}$ $4\frac{3}{5} = \frac{1}{5}$

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

$$4\frac{3}{5} = \frac{1}{5}$$

$$4\frac{7}{8} = \frac{3}{4}$$

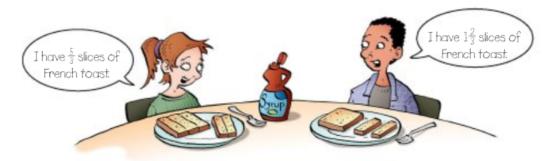
$$4\frac{7}{8} = \frac{3}{15}$$
 $6\frac{2}{15} = \frac{13}{15}$

$$5\frac{3}{4} = \frac{23}{4}$$

$$5\frac{3}{7}=\frac{3}{7}$$



Converting between Mixed Numbers and Improper Fractions



How are $\frac{5}{3}$ and $1\frac{2}{3}$ related?

$$\frac{2}{3} \Rightarrow \frac{5}{3}$$

$$M_{i,ked}$$
Improper

Review of yesterday

Remember Fractions are related to division (Grouping)

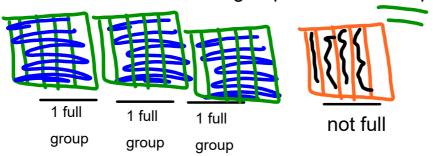
When I say

3 and four fifths

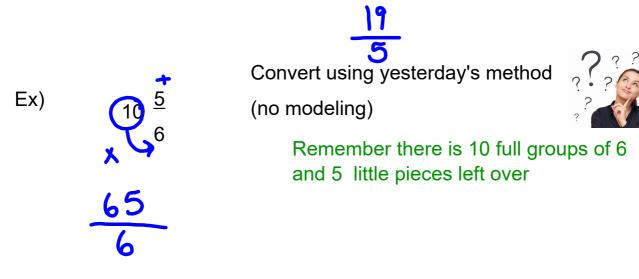
or



it means: 3 full groups and a part of a group Each group should have 5 pieces



Now that you have it as mixed you can convert to improper by counting each individual piece BUT remember they are fifths in this case (Away keep the original denominator)



3 quarters:

Connect

- ➤ To write $2\frac{3}{4}$ as an improper fraction:
 - · Alison thinks about money.

\$2:





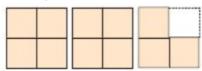
There are 11 quarters altogether.

So,
$$2\frac{3}{4} = \frac{11}{4}$$

• Hiroshi draws a diagram to represent $2\frac{3}{4}$.



Hiroshi then divides each whole to show quarters.



So, $2\frac{3}{4}$ is the same as $\frac{11}{4}$.

· Nadia uses mental math.



equals 11 quarters.



I know there are 4 quarters in 1 whole. So, in 2 wholes there are $2 \times 4 = 8$ quarters. Eight quarters plus 3 more quarters equals 11 quarters. So, $2^{\frac{3}{4}}$ is the same as $\frac{14}{4}$.



How to convert Improper to mixed.... Study

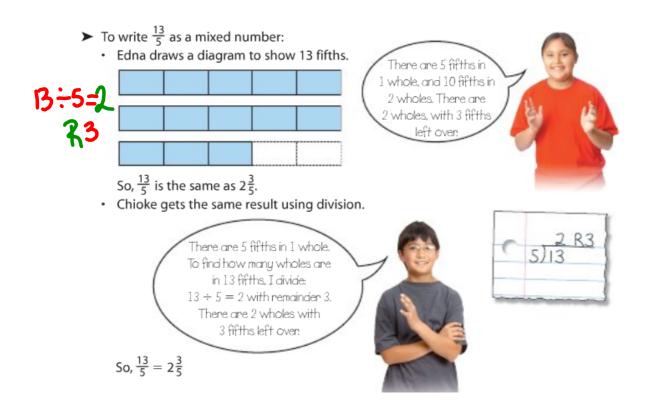
Remember Fractions are related to division (Grouping)

Means if I have 18 pieces, how many full groups of 7 will I have?

7 goes into 18 --> 2 full times

$$\frac{18}{7} = 2 \frac{4}{7} = \frac{Remainde}{Remainde}$$
full groups part of the remaining group

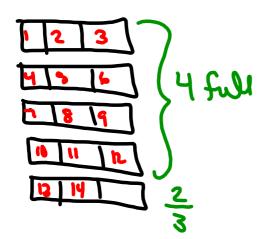
So Improper to mixed is division with a remainder Don't really have to model

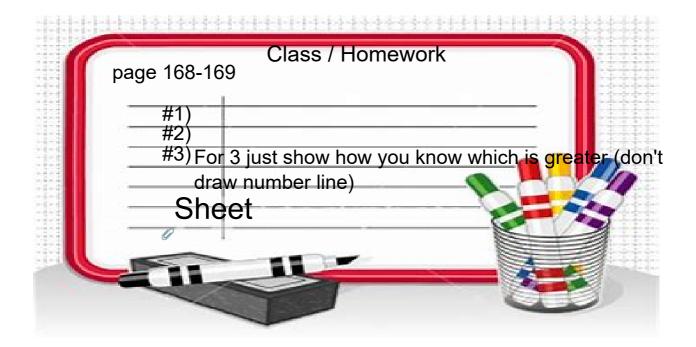


You try

Convert the improper fractions to mixed

a)
$$\frac{14}{3} = \frac{2}{3}$$

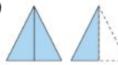




Practice

Use Cuisenaire rods or coloured strips when they help.

1. Write an improper fraction and a mixed number to describe each picture.









2. Draw a picture to represent each number. a) $1\frac{5}{8}$ b) $1\frac{2}{3}$ c) $\frac{7}{4}$ d) $\frac{9}{2}$

3. Write each mixed number as an improper fraction. a) $1\frac{1}{6}$ b) $4\frac{3}{8}$ c) $1\frac{3}{4}$ d) $3\frac{3}{5}$ e) $8\frac{1}{2}$ f) $7\frac{1}{4}$

4. Write each improper fraction as a mixed number.

a) $\frac{17}{5}$ b) $\frac{9}{4}$ c) $\frac{18}{4}$ d) $\frac{14}{3}$ e) $\frac{20}{3}$ f) $\frac{20}{6}$

Chapter 5 Fractions Ratios Percents Lesson 2 Convert Mixed _Improper dayede@keerfd.6n,c2te1baok

5. Which of these improper fractions are between 4 and 5? How do you know?

a) $\frac{13}{3}$

b) $\frac{13}{4}$

c) $\frac{13}{5}$

d) $\frac{13}{6}$



- Mary baked 5 round bannock for a bake sale at the Chief Kahkewistahaw Community School in Saskatchewan. She cut each bannock into 12 equal pieces. Mary sold 41 pieces of bannock.
 - a) How many bannock did Mary sell? Give your answer 2 ways.
 - b) How many bannock are left? Give your answer 2 ways.



- Suppose you have 14 quarters. Do you have \$4? Explain.
 - 8) The pizza at Kwame's party is cut into eights. Kwane eats 3 slices and the rest of her family eat 18 slices. There are 3 slices left over. How may pizzas had been ordered?
 - Maybelline has 3 ⁵⁄₆ loaves of bread in her diner in Regina.
 The whole loaves are cut into 6 equal slices.
 To how many customers can Maybelline serve a slice of bread?
 Draw a diagram to show your solution.

- 10. Hair scrunchies come in packages of 5. Suppose you have $2\frac{1}{5}$ of these packages to share among 4 friends.
 - a) Do you have enough scrunchies to give each friend three scrunchies? How do you know?
 - b) Do you have enough scrunchies to give each friend two? How do you know?



Improper and Mixed WS.notebook