



Warm up Grade 6

Chapter 5

Lesson 1 Day 2

num ← shaded

Date: _____



den ← how many pieces the whole object is cut in to

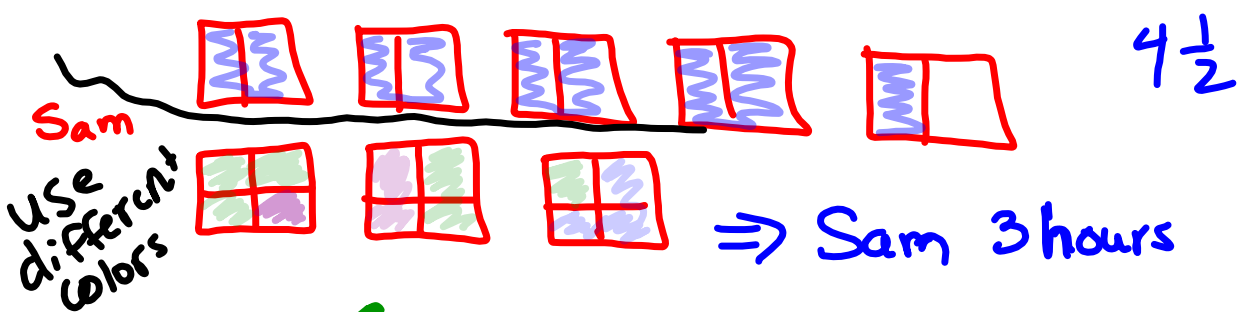
1) Model $3\frac{2}{3}$ with pattern blocks. Is this the same as $\frac{12}{3}$?



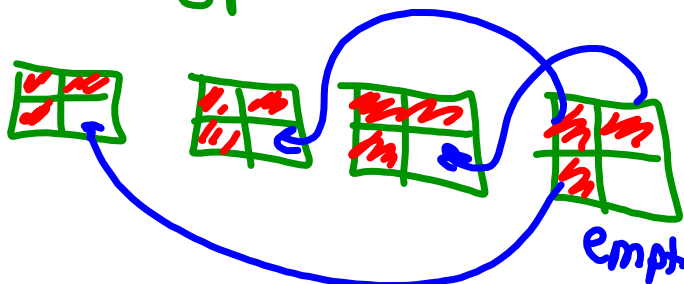
$3\frac{2}{3}$ is Not the same as $\frac{12}{3}$

#2) Will took 4 and a half hours to drive to his Nanny's house. Sam drove and took breaks. Sam drove $\frac{3}{4}$ of an hour then took a break. She did this 4 times. Who spent more time driving? (Draw pictures to show how you know)

Will $4\frac{1}{2}$



Or



Practice

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

a) $2\frac{1}{4}$

b) $1\frac{1}{6}$

c) $2\frac{3}{5}$

d) $2\frac{1}{2}$

e) $1\frac{2}{3}$

f) $1\frac{13}{25} = 1\frac{3}{5}$

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

$\frac{5}{4}$ $\frac{9}{4}$ $\frac{7}{4}$ $2\frac{3}{4}$ $3\frac{1}{4}$
 $1\frac{3}{4}$ $1\frac{1}{4}$ $2\frac{1}{4}$

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

a) $\frac{5}{4}$ $1\frac{1}{4}$

b) $\frac{9}{4}$ $2\frac{1}{4}$

c) $\frac{7}{4}$ $1\frac{3}{4}$

b) $2\frac{3}{4}$ $\frac{11}{4}$

$3\frac{1}{4}$ $\frac{13}{4}$

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

Yes a) $3\frac{2}{3}$ and $\frac{11}{3}$

no 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?

$\frac{1}{2}$ CUP $\frac{1}{4}$ CUP $\frac{1}{3}$ CUP

a) $1\frac{1}{6}$ cups $\frac{7}{6}$

b) $2\frac{1}{2}$ cups $\frac{5}{2}$

c) $1\frac{2}{3}$ cups $\frac{5}{3}$

d) $1\frac{5}{6}$ cups $\frac{11}{6}$

6 cups of $\frac{1}{6}$ make 1 whole

How to convert from mixed to improper without modelling...

Convert Mixed Numbers to Improper Fractions

FIRST
 3×4

NEXT
 $12 + 2$

LAST
The sum is the numerator
Keep the same denominator

FIRST multiply denominator by the whole number

$3 \times 4 = 12$

NEXT add the product to the numerator

$12 + 2 = 14$

LAST The sum is the numerator
Keep the same denominator

How many thirds are in the whole number?

PLUS how many thirds are in the fraction?

TOTAL THIRDS =

$\frac{14}{3}$

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Convert from mixed to improper without modelling...

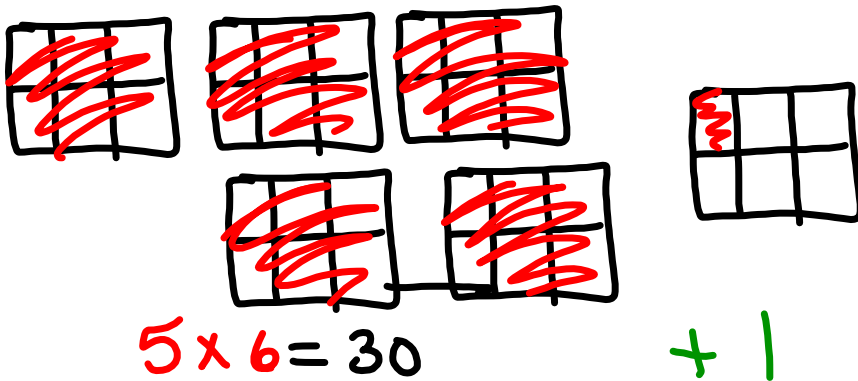
You try

a) $5\frac{1}{6}$
 x ↪

$$\frac{31}{6}$$

b) $3\frac{2}{7} = \frac{23}{7}$
 x ↪

c) $6\frac{5}{8} = \frac{53}{8}$
 x ↪



$$\frac{31}{6}$$

31

Are the following equivalent

a) $2 \frac{3}{5}$ (Mixed) $\frac{13}{5}$ (Improper)

↓
Change to improper
to compare

$$\frac{13}{5} = \frac{13}{5}$$

b) $5 \frac{1}{12}$ (Mixed) $\frac{59}{12}$ (improper)

× ↪
↓
Change to
improper

$$\frac{61}{12} \neq \frac{59}{12}$$

>

Class / Homework

page 165

#5, #6, #7, #8

Sheet (next page)

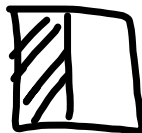
$3\frac{1}{2} = \frac{7}{2}$

$3 \times 2 + 1 = 6 + 1 = 7$

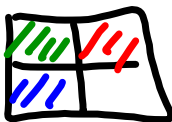
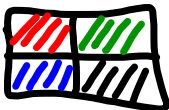


6) $2 \frac{1}{2}$

Kendra



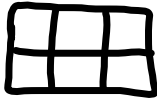
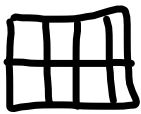
Mario



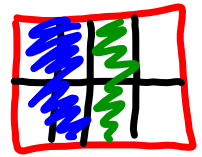
1

$\frac{3}{4}$

7)



Must know
 $\frac{4}{8}$ is $\frac{1}{2}$
 $\frac{3}{6}$ is $\frac{1}{2}$

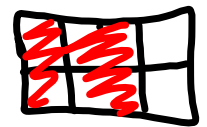


2

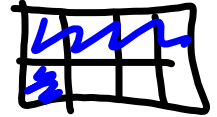
2 $\frac{5}{8}$
 2 $\frac{6}{8}$
 2 $\frac{7}{8}$

2 $\frac{4}{6}$
 2 $\frac{5}{6}$

OR

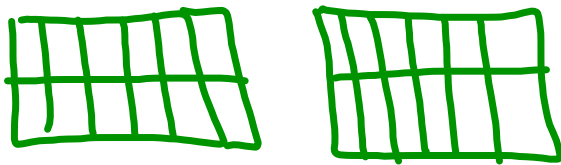


OR

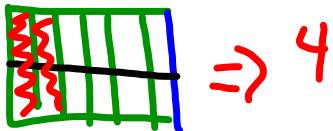


$2\frac{1}{3}$ of a dozen
12

2 full dozen = 24 creps



$\frac{1}{3}$ of dozen $\frac{1}{3}$ of 12 = $12 \div 3 = 4$



ate 28 creps

Converting Fractions (A)

Name: _____

Date: _____

Convert each mixed fraction to an improper fraction.

$9\frac{1}{9} = \text{---}$

$3\frac{8}{9} = \text{---}$

$8\frac{7}{12} = \text{---}$

$7\frac{7}{9} = \text{---}$

$3\frac{11}{15} = \text{---}$

$3\frac{2}{5} = \text{---}$

$4\frac{2}{7} = \text{---}$

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

$5\frac{1}{7} = \text{---}$

$2\frac{7}{10} = \text{---}$

$3\frac{4}{5} = \text{---}$

$4\frac{5}{7} = \text{---}$

$3\frac{3}{8} = \text{---}$

$6\frac{1}{8} = \text{---}$

$5\frac{5}{6} = \text{---}$

$7\frac{4}{15} = \text{---}$

$4\frac{2}{9} = \text{---}$

$9\frac{1}{6} = \text{---}$

$7\frac{5}{8} = \text{---}$

$1\frac{5}{9} = \text{---}$

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

$8\frac{7}{15} = \text{---}$

$6\frac{1}{5} = \text{---}$

$8\frac{1}{12} = \text{---}$

$8\frac{1}{15} = \text{---}$

$7\frac{5}{12} = \text{---}$

$1\frac{3}{10} = \text{---}$

$6\frac{8}{15} = \text{---}$

$1\frac{9}{10} = \text{---}$

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

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

$1\frac{11}{12} = \text{---}$

$3\frac{4}{9} = \text{---}$

$3\frac{1}{10} = \text{---}$

$2\frac{1}{2} = \text{---}$

$4\frac{3}{5} = \text{---}$

$4\frac{7}{8} = \text{---}$

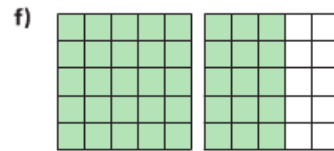
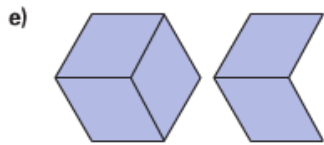
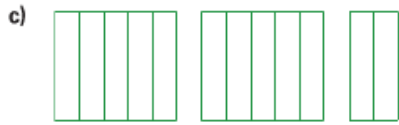
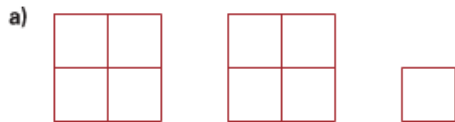
$6\frac{2}{15} = \text{---}$

$5\frac{3}{4} = \text{---}$

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

Practice

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



2. a) Match each improper fraction with a mixed number.

Draw pictures to record your work.

$$\frac{5}{4} \qquad \frac{9}{4} \qquad \frac{7}{4} \qquad 2\frac{3}{4} \qquad 1\frac{3}{4} \qquad 1\frac{1}{4} \qquad 2\frac{1}{4} \qquad 3\frac{1}{4}$$

- 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?



- a) $1\frac{1}{6}$ cups b) $2\frac{1}{2}$ cups c) $1\frac{2}{3}$ cups d) $1\frac{5}{6}$ cups

5. The Fernandez family drank $3\frac{1}{2}$ 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 $2\frac{1}{2}$ 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?



7. Carlo baked pies for a party. He cut some pies into 6 pieces and some into 8 pieces. After the party, more than $2\frac{1}{2}$ 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.