



Warm up Grade 6

Date: Dec. 18

Chapter 5

Lesson 3 Day 1

Quiz

Tomorrow

#1) Write each of the following as a mixed

a) $\frac{27}{4} = 6\frac{3}{4}$

b) $\frac{43}{5} = 8\frac{3}{5}$



#2) Boxes of Goldfish Crackers comes in packs of 8. Suppose you have $3\frac{1}{8}$ boxes to share among 4 friends. Do you have enough crackers to give each friend 6 packages? How do you know (Basically show work)

$$3\frac{1}{8} \text{ boxes}$$

↪

$$\frac{25}{8} \text{ have packages}$$

$$4 \text{ friend who each want } 6 \text{ packs}$$

$$6 \times 4 = 24 \text{ packs}$$

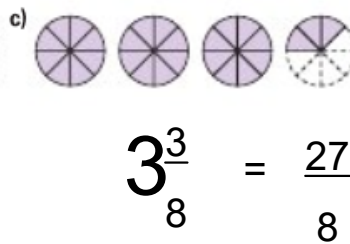
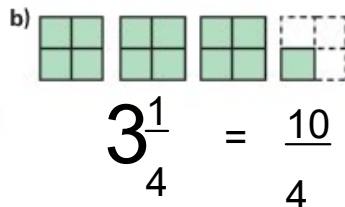
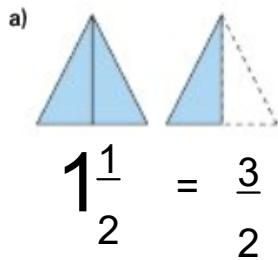
↓ need

I have 25 packs so
Can give each friend 6 packs.

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) $7\frac{1}{4}$
- $\frac{7}{6}$ $\frac{35}{8}$ $\frac{7}{4}$ $\frac{18}{5}$ $\frac{17}{2}$ $\frac{29}{4}$

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) $\frac{20}{6}$
- $3\frac{2}{5}$ $2\frac{1}{4}$ $4\frac{2}{4}$ $4\frac{2}{3}$ $6\frac{2}{3}$ $3\frac{2}{6}$

reduce

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) $\frac{13}{6}$

$4\frac{1}{3}$ $3\frac{1}{4}$ $2\frac{3}{5}$ $2\frac{1}{6}$

✓ ✗ ✗ ✗



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.

a) $\frac{41}{5}$ or $8\frac{1}{5}$

b) $5 \times 12 = 60$ pieces
 $60 - 41 = 19$ pieces left
 $\frac{19}{5}$ or $3\frac{4}{5}$

7. Suppose you have 14 quarters. Do you have \$4? Explain.

$\frac{14}{4}$ or $3\frac{2}{4}$ no you have \$3.50

8) The pizza at Kwame's party is cut into eights. Kwame eats 3 slices and the rest of her family eat 18 slices. There are 3 slices left over. How many pizzas had been ordered?

$18 + 3 + 3 = 24$ pieces all together

$\frac{24}{8} = 3$ full pizzas

9. Maybelline has $3\frac{5}{6}$ 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.

$\frac{23}{6}$ she has 23 individual slices of bread, so can serve 23 people

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?

$2\frac{1}{5} = \frac{11}{5}$ you have 11 scrunchies

a) 4 friends x 3 scrunchies = 12 scrunchies so we only have 11 so you cannot give each friend 3 scrunchies

b) $11 \div 4 = 2$ remainder 3

You can only give each friend 2 scrunchies

Grade Five	Grade Six	Grade Seven
N7 Demonstrate an understanding of fractions by using concrete and pictorial representations to: create sets of equivalent fractions; compare fractions with like and unlike denominators.	N4 Relate improper fractions to mixed numbers.	N5 Demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially and symbolically (limited to positive sums and differences).

Let's review Equivalent fractions

Must either multiply OR divide BOTH the top and bottom by the same number

NAME: _____ DATE: _____

EQUIVALENT FRACTION STRIPS HALVES

1 WHOLE

$\frac{1}{2}$ $\frac{1}{2}$

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

$\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$

$\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$ $\frac{1}{8}$

$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$

$\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$

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Example:

$\frac{1}{2} = \frac{2}{4}$ *full fraction* → *Empty (Not full)*

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

x2

$\frac{1}{3} = \frac{3}{9}$

x3

b) $\frac{1}{2} = \frac{3}{6}$

x3

c) $\frac{1}{2} = \frac{5}{10}$

x5

$\frac{1}{2} = \frac{5}{10}$

x5

Name _____ Date _____

EQUIVALENT FRACTION STRIPS THIRDS

The image shows five rows of fraction strips representing 1 whole:

- 1 yellow strip labeled "1 WHOLE"
- 3 green strips, each labeled $\frac{1}{3}$
- 6 brown strips, each labeled $\frac{1}{6}$
- 9 light green strips, each labeled $\frac{1}{9}$
- 12 grey strips, each labeled $\frac{1}{12}$
- 15 light blue strips, each labeled $\frac{1}{15}$

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Gr. 5 Review

a) $\frac{2}{3} = \frac{4}{6}$

Handwritten annotations: A green arrow points from 2 to 4 with "x2" above it. Another green arrow points from 3 to 6 with "x2" below it.

b) $\frac{2}{3} = \frac{10}{15}$

Handwritten annotations: A red arrow points from 2 to 10 with "x5" above it. Another red arrow points from 3 to 15 with "x5" below it.

Whatever you do to Bottom you must do to top.

Gr. 5 Review

Equivalent Fractions have the same value, even though they may look different.

These fractions are really the same:

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

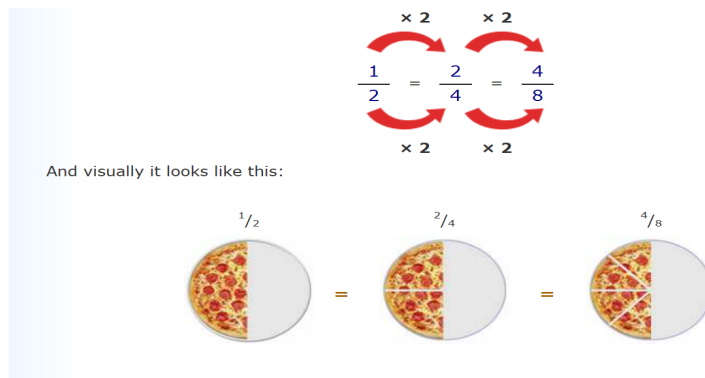
To get equivalent fractions you MUST

multiply or divide both the top and bottom **by the same number.**

The rule to remember is:

"What you do to the top you must do to the bottom"

Here is why those fractions are really the same:





Missing Numbers

ES1

Fill in the missing numbers.

1) $\frac{3}{4} = \frac{6}{8}$

3) $\frac{11}{2} = \frac{33}{6}$

5) $\frac{8}{14} = \frac{16}{28}$

7) $\frac{40}{15} = \frac{8}{3}$

9) $\frac{12}{16} = \frac{6}{8}$

11) $\frac{1}{10} = \frac{5}{50}$

13) $\frac{39}{12} = \frac{13}{4}$

15) $\frac{3}{6} = \frac{12}{24}$

2) $\frac{5}{3} = \frac{20}{12}$

4) $\frac{35}{25} = \frac{7}{5}$

6) $\frac{6}{9} = \frac{24}{36}$

8) $\frac{10}{3} = \frac{30}{9}$

10) $\frac{4}{7} = \frac{16}{28}$

12) $\frac{21}{27} = \frac{7}{9}$

14) $\frac{9}{2} = \frac{45}{10}$

16) $\frac{4}{9} = \frac{8}{18}$

Full
↓
missing

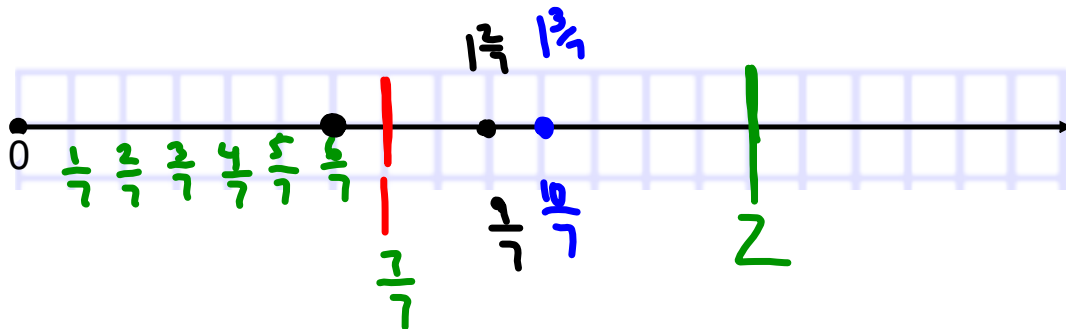
When comparing fractions with the same denominators and placing them on a number line.

Make sure the number line is cut into equal pieces which happens to be the denominator.

Compare $\frac{6}{7}$, $1\frac{2}{7}$, $\frac{10}{7}$ Place them on the number line

cut your line into

Hint: Denominator is 7, so it takes 7 jumps to get to 1 whole



$$\frac{5}{6}, \overset{\text{Improper}}{\frac{10}{6}}, \overset{2\frac{1}{6}}{1\frac{3}{6}}$$

Put these fraction in order from least to greatest.

$$\frac{5}{6}, 1\frac{3}{6}, \frac{10}{6}$$

least to greatest

$$\frac{42}{9}, 4\frac{5}{9}, \frac{30}{9}$$

Improper

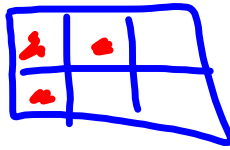
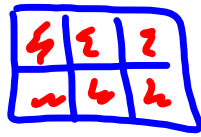
$$\frac{41}{9}$$

Write answer

$$\frac{30}{9}, 4\frac{5}{9}, \frac{42}{9}$$

Given a picture tell fraction

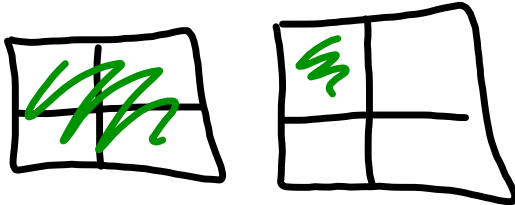
Ex)



$$1 \frac{3}{6} = \frac{9}{6}$$

Mixed Improper

Draw $\frac{5}{4}$



Convert Mixed to Improper

$$7 \frac{2}{5} = \frac{37}{5}$$

Convert Improper to Mixed

$$\frac{41}{8} = 5 \frac{1}{8}$$

* Cut into Piece
} denominator

Kylie was here Kylie Avery