

Fractions, Mixed Fractions, Improper Fractions, Ratios, Percents

Name: _____

For each part, take notes on the concepts from the text then answer questions below

Part A – Mixed Fractions (Refer to page 162-165 for notes)

1. Katie baked pies for a party. She cut some pies into 6 pieces and some into 8 pieces. After the party, more than $2\frac{1}{2}$ pies but less than 3 pies were left. How much pie might have been left? Show how you know.
2. Rachel mowed her lawn for $2\frac{1}{2}$ hours. Josh mowed his lawn for $\frac{1}{4}$ hr then stopped. Josh did this 7 times. Who spent more time mowing the lawn? Show how you know.
3. How can you find out if $2\frac{1}{2}$ and $\frac{10}{4}$ name the same amount? Use words, #'s and pictures to explain.

Part B – Comparing Mixed and Improper Fractions (Refer to page 166-169 for notes)

1. Draw a picture to represent each number:
a) $1\frac{5}{8}$ b) $\frac{7}{4}$
2. Write each number as an improper fraction:
a) $4\frac{3}{8}$ b) $7\frac{1}{4}$
3. Write each improper fraction as a mixed number:
a) $\frac{15}{7}$ b) $\frac{20}{3}$
4. James baked 5 round double-meat supreme pizzas for a Fish Creek School bake sale. He cut each double-meat supreme pizza into 12 equal pieces. James sold 41 pieces of pizza.
a) How many pizzas did James sell? Give your answer 2 ways.
b) How many pizzas are left? Give your answer 2 ways.
5. Madison has $3\frac{5}{6}$ loaves of bread in her refrigerator. The whole loaves are cut into 6 equal slices. If she were to have 30 people over for breakfast, how many people would get a slice of bread? How many people would not get one?

Part C – Ordering Fractions (Refer to page 171-175 for notes)

1. Plot the following numbers on the number line provided: $\frac{1}{2}$, $\frac{23}{8}$, $1\frac{3}{4}$



2. Daniel says that $\frac{17}{3}$ is greater than $5\frac{3}{4}$. Is he correct? Use pictures, numbers and words to explain your answer.
3. Poli, Nathan and Carlos cooked pancakes for the school's pancake making contest. Poli makes $4\frac{1}{2}$ dozen pancakes, Nathan made $\frac{28}{6}$ dozen pancakes and Carlos made $\frac{13}{3}$ dozen pancakes. Who made the most? Who made the least? Sketch a number line to show what you know.

Part D – Ratios (Refer to page 176-179 for notes)

1. Last year, Mr. Polsky had 11 girls and 17 boys in the class including him. Write a ratio to describe each of the following situations.
a) girls to boys b) boys to girls c) boys to students d) girls to students
2. Write as many ratios as you can for the trail mix recipe below.
3. Use colored counters to draw the following ratios.
a) 5:6 b) 8 to 3 c) 2/11



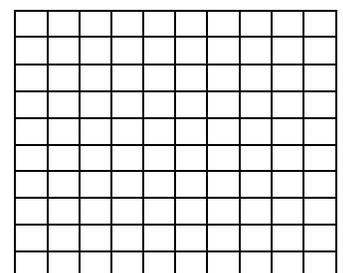
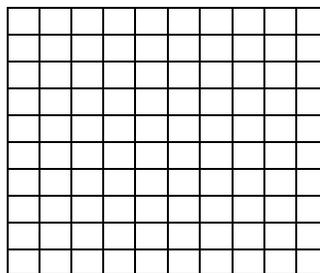
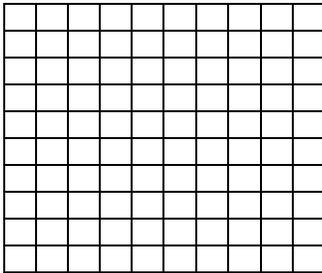
Part E – Equivalent Ratios/Fractions (Refer to page 180-183 for notes)

- Write 2 equivalent ratios for each ratio
 a) 3:1 b) 3:5 c) 8:3
- The table shows the number of beads used to make a necklace. Sarah wants to make a smaller necklace using the same ratio of pink to white beads. How many different necklaces could she make? How do you know?
- Mr. Polsky’s class plays a game in teams. Each team has the same number of students. The ratio of teams to players is 8:32.
 a) How many students are in Mr. Polsky’ Class?
 b) How many students are on each team?
- To make a jug of plant fertilizer, Lewis uses 6 cups of water and 3 scoops of fertilizer. Carson uses 8 cups of water and 5 scoops of fertilizer. Will Lewis’ and Carson’s fertilizer have the same strength? Explain.

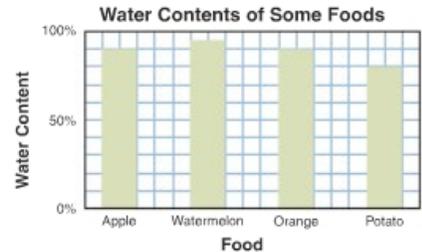
Color	Number
Pink	30
White	35

Part F – Percents (Refer to page 186-189 for notes)

- Use hundreds square to show each percent. Then write the percent as a decimal and fraction.
 a) 84% b) 17% c) 125%



- The graph to the right shows the water content of some foods.
 a) About what percent of each food is water?
 b) About what percent of each food is not water?
 c) Write each percent in the graph as a fraction.
- Mrs. Dymianiw said of the 100 singers in the Fish Creek Choir 62% are girls and 48% are boys. Is this possible? Use words and pictures to explain.



Part G – Relating Fractions, Percents and Decimals (Refer to page 190-193 for notes)

- Use the data in the table to the right. Is each statement true or false? Explain how you know.
 a) More than 50% of the audience were adults or seniors
 b) Of the audience, 58/100 were children or teens
 c) More than ¼ of the audience were adults.
 d) Less than 0.5 of the audience were teens or adults.
- Write a percent that represents:
 a) A very little of something
 b) Almost all of something
 c) A little more than ¾ of something
 d) Between 0.25 and 0.50 of something.
 e) How did you choose each percent?

Age Group	Percent
Children	13%
Teens	45%
Adults	34%
Seniors	8%