

1. Compare these four mixes for apple juice.

Mix W 38%

5 cups	8 cups
concentrate	cold water

$\frac{5}{13}$
 $13 \overline{) 5.000}$
 .384

Mix X

3 cups	6 cups
concentrate	cold water

$\frac{3}{9} = \frac{1}{3}$
 33%
 33. $\bar{3}$ %
 33 $\frac{1}{3}$ %

40%
 Mix Y

6 cups	9 cups
concentrate	cold water

$\frac{6}{15} = \frac{2}{5}$

Mix Z

3 cups	5 cups
concentrate	cold water

$\frac{3}{8}$
 37.5%
 37 $\frac{1}{2}$ %

- Which mix would make the most "appley" juice?
- Suppose you make a single batch of each mix. What fraction of each batch is concentrate?
- Rewrite your answers to part (b) as percents.
- Suppose you make only 1 cup of Mix W. How much water and how much concentrate do you need?

$\frac{5}{13}$ c conc. $\frac{8}{13}$ c. water

The camp dining room has two kinds of tables. A large table seats ten people. A small table seats eight people. On pizza night, the students serving dinner put four pizzas on each large table and three pizzas on each small table.

$$10 \overline{) 4}$$

2/5 pizza to people
or 40%



$$8 \overline{) 3}$$

$$37\frac{1}{2}\%$$

$$\frac{3}{8}$$

people to pizza $\frac{10}{4} = 2\frac{1}{2}$ people per pizza

$$\frac{8}{3} = 2\frac{2}{3} \text{ people per pizza}$$

A. Suppose the pizzas are shared equally by everyone at the table. Does a person sitting at a small table get the same amount as a person sitting at a large table? Explain your reasoning.

B. Which table relates to $\frac{3}{8}$? What do the 3 and the 8 mean? Is $\frac{3}{8}$ a part-to-whole comparison or a part-to-part comparison?

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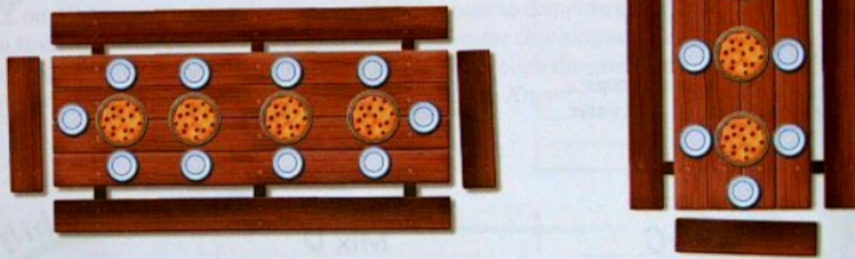


C. Selena thinks she can decide at which table a person gets the most pizza. She uses the following reasoning:

$10 - 4 = 6$ and $8 - 3 = 5$ so the large table is better.

1. What does the 6 mean and what does the 5 mean in Selena's method of reasoning?
2. Do you agree or disagree with Selena's method?
3. Suppose you put nine pizzas on the large table. What answer does Selena's method give? Does this answer make sense?
4. What can you now say about Selena's method?

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L to S
 8 to 5
 ↓ ↓
 16 to 10

D. 1. The ratio of large tables to small tables in the dining room is 8 to 5. There are exactly enough seats for the 240 campers. How many tables of each kind are there?

2. What fraction of the campers sit at small tables?
 3. What percent of the campers sit at large tables?

$$\frac{1}{3} \quad \frac{80}{240}$$

LP : SP
 80 : 40

$66\frac{2}{3}\%$

Pg 25

#4, 5, 8, 14