

**Student:** Tim Busken  
**Date:** 8/19/15  
**Time:** 3:26 PM

**Instructor:** Tim Busken  
**Course:** Algebra for Statistics  
**Book:** Almy: Math Lit: A Pathway to  
College Mathematics

**Assignment:** Lesson 1.5 A Tale of Two  
Numbers

1. Write this ratio as a fraction in lowest terms.

\$100 to \$90

\$100 to \$90 is .

(Simplify your answer. Type a fraction.)

2. Write this ratio as a fraction in lowest terms.

90 minutes to 20 minutes

90 minutes to 20 minutes is .

(Simplify your answer. Type a fraction.)

3. Find the ratio of the following. Simplify, if possible.

639 days to 549 days

The ratio is .

(Type an integer or a fraction.)

4. Write this ratio as fraction in lowest terms.

\$6.56 to \$22.48

\$6.56 to \$22.48 is .

(Simplify your answer. Type a fraction.)

5. Write the ratio as a fraction in lowest terms.

Compare in inches.

5 feet to 38 inches

The ratio is .

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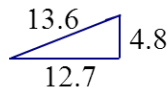
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6. A town has six flower shops. Their one-year sales figures are compared in the chart. Find the ratio of sales at Winnie-the-Florist to those at Flowers of Distinction.

The ratio is .  
(Simplify your answer. Type a fraction.)

Store	One-Year Sales (\$)
Corolla and Sons	135 thousand
Winnie-the-Florist	295 thousand
Radio Flowers	540 thousand
Flowers of Distinction	675 thousand
Sifter's	740 thousand
Gorilla Flowers	945 thousand

7. Find the ratio and simplify. In this triangle, find the ratio of the shortest side to the longest.



The simplified ratio is .  
(Type the ratio as a simplified fraction.)

8. The price of oil recently went from \$8.40 to \$14.70 per case of 12 quarts. Find the ratio of the increase in price to the original price.

The ratio is .  
(Type a simplified fraction.)

9. Write the rate as a fraction in lowest terms.

6 people for 38 dresses

Select the correct choice below and fill in the answer boxes within your choice.

- ☐ A. The rate is  $\frac{\text{people}}{\text{dresses}}$ .
- ☐ B. The rate is  $\frac{\text{dresses}}{\text{people}}$ .

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10. Write the rate as a fraction in lowest terms.

36 letters in 6 minutes

Select the correct choice below and fill in the answer boxes within your choice.

- ☐ A. The rate is  $\frac{\boxed{\phantom{00}} \text{ letters}}{\boxed{\phantom{00}} \text{ minute}}$ .
- ☐ B. The rate is  $\frac{\boxed{\phantom{00}} \text{ minutes}}{\boxed{\phantom{00}} \text{ letter}}$ .

11. Which has the lower unit price? Soap

brand A: \$1.04 for 3 bars      brand B: \$1.65 for 4 bars

The brand with the lower unit price is brand .

12. Find the best buy (based on price per unit) for cereal.

15-ounce size: \$3.59

20-ounce size: \$5.09

33-ounce size: \$5.69

The best buy is the -ounce size.

13. A grocery store sells four different jars of peanut butter. Determine which is the best buy, based on the cost per unit.

14 ounces for \$1.30      18 ounces for \$2.32

28 ounces for \$3.25      38 ounces for \$4.03

Which size jar is the best buy?

ounces

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14. Three brands of cornflakes are available.  
Brand G: \$1.99 for 11 ounces  
Brand K: \$3.99 for 17.2 ounces  
Brand P: \$3.29 for 15.1 ounces
- You have a coupon for 40¢ off Brand P, and a coupon for 50¢ off Brand G. Which cereal is the best buy?

Which brand is the best buy?

- ☐ A. Brand G  
☐ B. Brand K  
☐ C. Brand P