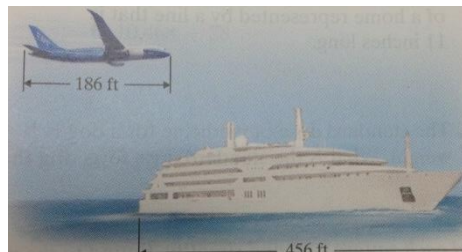


1. Write each ratio or rate as a fraction in simplest form.

4500 trees to 6500 trees

2. The world's largest yacht the Al Salamah, measures in the 456 feet. A Boeing 787-8 Dreamliner measures 186 feet long. Find the ratio of the Al Salamah to the length of 787-8. (Source: *Power & Motoryacht* magazine.)



3. Find the unit rate.

650 kilometers in 8 hours

4. Solve each proportion for the given variable.

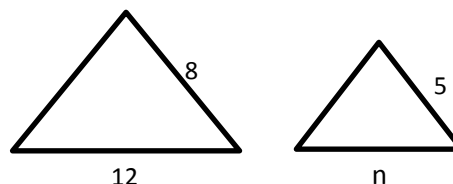
a. $\frac{n}{3} = \frac{15}{9}$

b. $\frac{8}{x} = \frac{11}{6}$

5. Solve.

- a. The standard dose of medicine for a dog is 10 grams for every 15 pounds of body weight. What is the standard dose for a dog that weighs 80 pounds?

- b. Given that the following triangles are similar, find the unknown length n.



6. Write the percent as a decimal.

85%

7. Write the decimal as a percent.

0.056

8. Write the percent as a fraction or a mixed number in simplest form.

a. 0.2%

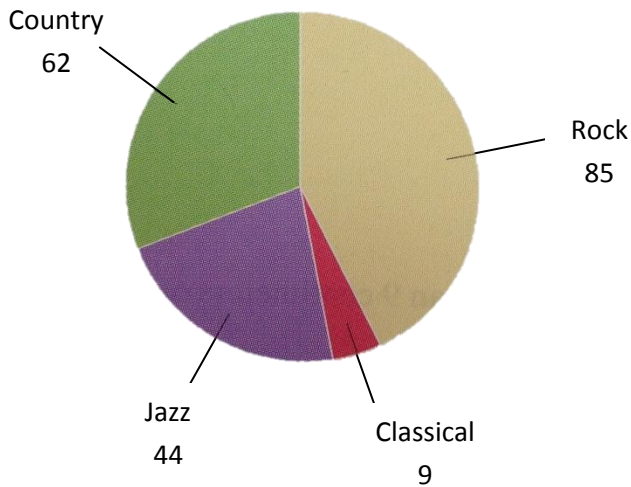
9. Write the fraction as a percent.

a. $\frac{3}{8}$

b. $1\frac{3}{4}$

10. Solve.
- a. What number is 42% of 80?
 - b. 0.6% of what number is 7.5?
 - c. 567 is what percent of 756?
11. Solve. If necessary, round to the nearest tenth, dollar amounts to the nearest cent, and all other numbers to the nearest whole.
- a. An alloy is 12% copper. How much copper is contained in 320 pounds of this alloy?
 - b. If the local sales tax is 1.25%, find the total amount charged for a stereo system priced at \$354.

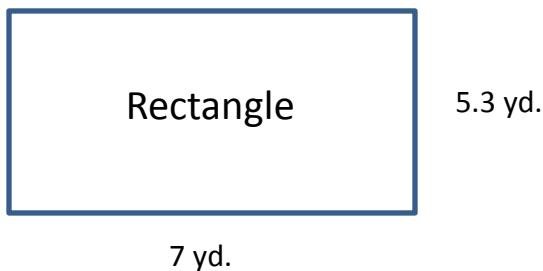
12. The result of a survey of 200 people is shown in the following circle graph. Each person was asked to tell his or her favorite type of music. Use this graph to answer Exercises **a** and **b**.



- a. Find the ratio of those who prefer rock music to the total number surveyed.
- b. Find the ratio of those who prefer country music to those who prefer jazz. surveyed.

13. Find the complement of a 78° angle.
14. Find the supplement of a 124° angle.

15. Find the perimeter and area of the figure below.



Answers Math 0302 Practice Test 4

1.	$\frac{9}{13}$
2.	$\frac{76}{31}$
3.	81.25 km/hr
4a.	$n = 5$
4b.	$x = \frac{48}{11} \text{ or } 4\frac{4}{11}$
5a.	$53\frac{1}{3} \text{ grams}$
5b.	$n = \frac{15}{2} \text{ or } 7.5$
6.	0.85
7.	5.6%
8.	$\frac{1}{500}$
9a.	37.5 %
9b.	175%
10a.	33.6
10b.	1,250
10c.	75%
11a.	38.4 lb
11b.	\$358.43
12a.	$\frac{17}{40}$
12b.	$\frac{31}{22}$
13.	12°
14.	56°
15.	$\text{Perimeter} = 24.6 \text{ yards}$ $\text{Area} = 37.1 \text{ yards}^2$