	udent: Instructor: Ray Brown te: Course: M050 Sum17 CAI 10052 G43 Assignment: ch06_7rev HW
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1.	Click the link below to watch a video reviewing concepts in this chapter. You are encouraged to watch the video and work problems with the instructor to help ensure your understanding of the material.
	Chapter 6/7 Review ¹
	True - I understand the concept.
	False - I am not understanding the concept and intend to seek assistance.
	1: http://www.screencast.com/t/hdgCN7lxsCg7
	Answer: True - I understand the concept.
2.	Find the unit ratio.
	165 to 30
	The unit ratio is (Simplify your answer. Type an integer or a decimal.)
	Answer: 5.5
3.	Reminder Online Students - Prior to the taking the chapter 6/7 post-test you should try to communicate with your instructor via Zoom Link ² or other synchronous platform. Knowing how to use this tool will allow you to work directly with your instructor online.
	Fill in the blank.
	A rate is a rate expressed as a fraction with a denominator of 1.
	A (1) rate is a rate expressed as a fraction with a denominator of 1.
	2: https://zoom.us/j/6262283505
	(1) price unit reduced
	Answer: (1) unit
4.	A car is driven 420 miles in 14 hours. What is the rate in miles per hour?
	The rate is mph.
	(Simplify your answer.)
	Answer: 30

5. Determine if the given equation is a proportion.

$$\frac{42}{12} = \frac{7}{3}$$

Choose the correct answer below.

- The proportion $\frac{42}{12} = \frac{7}{3}$ is a false proportion.
- The proportion $\frac{42}{12} = \frac{7}{3}$ is a true proportion.

Answer: The proportion $\frac{42}{12} = \frac{7}{3}$ is a false proportion.

6. Determine if the given equation is a proportion.

$$\frac{6\frac{1}{2}}{2\frac{1}{6}} = \frac{3\frac{5}{6}}{1\frac{7}{14}}$$

Is the given equation a proportion?

- O No
- Yes

Answer: No

7. Solve the given proportion.

$$\frac{-14}{v} = \frac{-7}{2}$$

y =

(Simplify your answer. Type an integer or a decimal rounded to the nearest tenth as needed.)

Answer: 4.0

8. Solve the given proportion.

$$\frac{-3.7}{-2.3} = \frac{x}{5.4}$$

x =

(Simplify your answer. Type an integer or a decimal rounded to the nearest tenth as needed.)

Answer: 8.7

9. Solve the given proportion.

$$\frac{\frac{2}{6}}{-\frac{2}{6}} = \frac{n}{\frac{6}{4}}$$

n =

(Type an integer or a simplified fraction.)

Answer: $-\frac{3}{2}$

10. Every $1\frac{1}{4}$ inches on a wilderness map represents 1 mile. If the actual distance between two lakes is 20 miles, how far apart are the lakes on the map?

The lakes are _____ inches apart on the map. (Simplify your answer.)

Answer: 25

11. Suppose 38 lbs of coffee beans are required to produce 2 lbs of Farmer's coffee. How many lbs of coffee beans are required to produce 437 lbs of Farmer's coffee?

437 lb of Farmer's coffee is produced from _____ lb of coffee beans.

Answer: 8303

12. A recipe that serves 8 people requires $1\frac{1}{2}$ cups of sugar. Using this recipe, how many cups of sugar are needed to serve 10 people?

cups of sugar are needed to serve 10 people.

(Simplify your answer. Type an integer, proper fraction, or mixed number.)

Answer: $1\frac{7}{8}$

13. Convert the length as indicated.

715 kilometers to hectometers

715 kilometers = hectometers
(Type an integer or a decimal.)

Answer: 7,150

14.	Convert the length as indicated.
	15.96 meters to kilometers
	15.96 meters = kilometers
	(Type an integer or a decimal.)
	Answer: 0.01596
15.	Convert as indicated.
	19 in to cm
	19 in \approx cm (Round to the nearest hundredth.)
	Answer: 48.26
16.	Convert the length as indicated.
	170 yards to meters.
	170 yd = m (Round to two decimal places as needed.)
	Answer: 155.96
17.	Convert the length as indicated.
	90 miles to kilometers
	90 mi = km
	(Simplify your answer. Type a whole number or decimal rounded to the nearest hundredth as needed.)
	Answer: 145.16
18.	Change 8% to a fraction or mixed number.
	8% = (Simplify your answer.)
	Answer: 2
	25
19.	Write the following percent as a fraction or mixed number in simplest form.
	760%
	760% =
	Answer: <u>38</u>
	5

20. Write the percent as a decimal.

78%

78% = (Simplify your answer. Type an integer or a decimal.)

Answer: 0.78

21. Write the percent as a decimal.

0.4%

0.4% =

Answer: 0.004

22. Write the following fraction as a percent.

3 10

 $\frac{3}{10} = \frac{}{}$ % (Type an integer or a simplified fraction.)

Answer: 30

23. Write the fraction as a percent. Answer as an integer or mixed number.

 $1\frac{1}{9}$

 $1\frac{1}{9} =$ ______%

(Simplify your answer. Type an integer or mixed number.)

Answer: 111 1 9

24. Write the following decimal as a percent.

0.072

0.072 = ______ % (Simplify your answer.)

Answer: 7.2

25.	Find the unknown value below.
	What number is 40% of 87.5?
	is 40% of 87.5.
	(Simplify your answer. Type an integer or a decimal.)
	Answer: 35
26.	Find the unknown value below.
	115% of what number is 23?
	115% of is 23.
	(Simplify your answer. Type an integer or a decimal.)
	Answer: 20
27.	Find the unknown value below.
	11.5 is what percent of 20?
	11.5 is % of 20.
	(Simplify your answer. Type an integer or a decimal.)
	Answer: 57.5
28.	Find the unknown value below.
	What percent is 22 of 88?
	% of 88 is 22.
	(Simplify your answer. Type an integer or a decimal.)
	Answer: 25
29.	A lamp on a clearance table is marked at 60% off. If the regular price is \$81.90, find the discount and the sale price.
	The discount is \$
	(Type an integer or a decimal.)
	The sale price is \$
	(Type an integer or a decimal.)
	Answers 49.14
	32.76

30.	A student got a \$12.50 discount on a new backpack. If the discount rate is 50%, find the original price of the backpack.		
	The original price of the backpack is \$		
	(Type an integer or a decimal.)		

Answer: 25