Student:	Instructor: Ray Brown	Assignments shoot roy LIM
Date:	Course: M055 Sum17 CAI 10054 G41	Assignment: ch09 rev HW

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 9 Review<sup>1</sup>

- True I understand the concept.
- False I am not understanding the concept and intend to seek assistance.

1: http://www.screencast.com/t/hgbyEYKpQx0

Answer: True - I understand the concept.

2. Solve the given equation and check the solution.

$$6z + 5 = z - 2$$

The solution is z = .

(Type an integer or a simplified fraction.)

Answer:  $-\frac{7}{5}$ 

3. Solve the given equation and check the solution.

$$14y - 2 = 28 - y$$

The solution is .

Answer: 2

4. Solve the equation and check your solution.

$$5x + 3 = -(x - 15)$$

x =

Answer: 2

5. Solve the equation and check the solution.

$$5 + 6(x - 7) = 3 - 4(x - 3)$$

The solution is x =

(Type an integer or a simplified fraction.)

Answer: 26

5

6.	Solve	the	formula	18x + 3v	v = 21	for v	V.

y = (Simplify your answer.)

Answer: -6x + 7

7. Determine whether the given value of the variable is a solution to the inequality.

$$x + 7 > 9$$
  $x = 3$ 

Is 3 a solution? Choose the correct answer below.

- O No
- Yes

Answer: Yes

8. Determine whether the given value of the variable is a solution to the inequality.

$$-4x \le -9$$
,  $x = 0$ 

Is the given value a solution?

- Yes
- O No

Answer: No

9. Determine whether the given value of the variable is a solution to the inequality.

$$5(t+5) < 3t-8$$
,  $t=7$ 

Is t = 7 a solution to the inequality?

- Yes
- O No

Answer: No

10. Select the answer that best completes the given statement.

The words "is", "gives", and "results in" are associated with the symbol (1) \_\_\_\_\_

- $(1) \bigcirc -.$ 
  - $\bigcirc$  =
  - O +.
  - O ÷

Answer: (1) = .

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11.	Let x represent the number. Use the given conditions to write an equation. Solve the equation and find the number.  The sum of four and twice a number is 36. Find the number.					
	Write an equation for the given conditions.					
	Find the number.					
	x =					
	Answers $4 + 2x = 36$ 16					
12.	Using the variable x, translate the sentence into an equation. Solve the resulting equation.  If a number is increased by 11 and then divided by 2, the result is 7.					
	The algebraic equation is					
	The number is					
	Answers $\frac{x+11}{2} = 7$					
	3					
13.	The sum of three consecutive natural numbers is 111. Find the numbers.					
	The numbers are,, and (Use ascending order.)					
	Answers 36					
	37					
	38					
14.	Find the number.					
	Two times a number divided by 3 equals 10.					
	The solution is					
	Answer: 15					
15.	In 15 years, a child will be 7 years older than twice her current age. What is the current age of the child?					
	The current age of the child is years.					

Answer: 8

16.	Use the formula	d = rt to find the	value of the	missing variable.
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d = 200 miles, r = 40 mph

t = hr

Answer: 5

17. Two cyclists leave a city at the same time, one going east and the other going west. The west bound cyclist bikes at 9 mph faster than the east bound cyclist. After 2 hours they are 66 miles apart. How fast is each cyclist riding?

The west bound cyclist is riding \_\_\_\_\_ mph.
The east bound cyclist is riding \_\_\_\_ mph.

Answers 21

12

18. Nico is saving money for his college education. He invests some money at 6%, and \$1600 less than that amount at 3%. The investments produced a total of \$168 interest in 1 yr. How much did he invest at each rate?

He invested \$\_\_\_\_\_ at 6% and \$\_\_\_\_ at 3%.

Answers 2400

800