

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**Module 2 - Topic C, Lesson 23:**  
**Solving Equations Using Algebra (P)**

**Direction:** Read, understand and analyze each problem.

3.) Ali was earning \$15 an hour as a landscaper's assistant. She just received a 10% raise. What is Ali's new hourly rate?

a. What is asked (Select one)?

- Ali's raise.
- Ali's earning.
- Ali's new hourly rate.

b. What are given?

- Ali's old hourly rate is \_\_\_\_\_.
- Ali's rate is \_\_\_\_\_ % her old rate.
- Ali's new hourly rate is the total of her \_\_\_\_\_ rate and the \_\_\_\_\_.

c. Complete the equation and solution.

$$x = \$15 + (0.10 \times \$15)$$

$$x = \$ \underline{\hspace{1cm}} + \$ \underline{\hspace{1cm}}$$

$$x = \$ \underline{\hspace{1cm}}$$

d. What is the final answer?

Ali's new hourly rate is \$ \_\_\_\_\_.