

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

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

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

2.) Troy is 3 times as old as Mia's and Dan's ages combined. If Troy is 36 and Mia is 5. How old is Dan?

a. What is asked (Select one)?

- The age of Dan.
- The age of Mia.
- The age of Troy.

b. What are given?

- Troy's age is \_\_\_\_\_.
- Mia's age is \_\_\_\_\_.
- The total of Mia's and Dan's age combined is \_\_\_\_\_.
- Troy is \_\_\_\_\_ times the total.

c. Complete the equation and solution.

$$3(5 + x) = 36$$

$$\underline{\hspace{2cm}} + x = 36 \div \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} + x = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

d. What is the final answer?

Dan is \_\_\_\_\_ years old.