

Name: _____

Date: _____

Create Your Own: **Two Truths & One Lie**

Directions:

Example Answers

- Create values for the variables.
- Write three equations with numbers and variables on both sides of the equal sign ($a \times y = 20 + z$). Two equations should be true and one should be a lie, or false.
- Swap worksheets with a partner and solve each other's equations. Decide which is the lie.
- Regroup with your partner to confirm or correct responses to the created equations. Discuss the answers by drawing on information from the equations.

$$a = 15 \quad y = 2 \quad z = 3$$

1.
$$\begin{array}{l} A \times Z \\ 15 \times 3 \end{array} = \begin{array}{l} A + A \times Y \\ 15 + 15 \times 2 \\ 45 = 45 \text{ is true} \end{array}$$

2.
$$\begin{array}{l} (36 \times Z) \div 9 \times Z \\ (36 \times 3) \div 9 \times 3 \end{array} = \begin{array}{l} A \times Y + (Z \times Y) \\ 15 \times 2 + (3 \times 2) \\ 36 = 36 \text{ is true} \end{array}$$

3.
$$\begin{array}{l} (36 \div Y) \times Y \\ (18) \times 2 \end{array} = \begin{array}{l} Z \times A \times Y \\ (45) \times 2 \\ 36 = 90 \text{ is a lie} \end{array}$$

Consider the Conversation

Did the discussion change your answers? **Student conversations should consist of proving their answers by outlining how to solve the problem, discussing the correct order for solving the equation and why, and correct vocabulary use (e.g., parentheses, multiply, equals, etc.)**