

Two Truths + One Lie 1

Solve the three equations. Determine which two are true and which one is a lie. Explain your answer to a partner or group by drawing on information from the equations.

Answers

$$\text{Basket} = 3$$

$$\text{Apple} = 6$$

$$\text{Leaf} = 12$$

$$1 \quad \text{Basket} \times \text{Basket} + \text{Apple} = \text{Leaf} - \text{Basket} + \text{Apple}$$

$15 = 15$ is true.

$$2 \quad (\text{Leaf} + \text{Leaf}) \times \text{Basket} = \text{Apple} \times \text{Leaf}$$

$72 = 72$ is true.

$$3 \quad \text{Leaf} \times \text{Apple} + \text{Apple} = \text{Apple} + \text{Basket} \times \text{Apple}$$

$78 = 24$ is a lie.

Consider the Conversation

Did the discussion change your answers? Student conversations should consist of students 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.)