

Shape Algebra 4 Variables

Find the values of the shapes. The values are whole numbers.

$$\text{Yellow Circle} / \text{White Triangle} \cdot \text{White Triangle} = 5$$

$$\text{Yellow Circle} = \text{Box}$$

$$\text{Yellow Circle} + \text{White Diamond} + \text{Grey Hexagon} = 30$$

$$\text{Grey Hexagon} = \text{Box}$$

$$\text{White Diamond} / \text{White Triangle} = 5$$

$$\text{White Triangle} = \text{Box}$$

$$\text{Grey Hexagon} \cdot \text{White Triangle} = \text{White Diamond}$$

$$\text{White Diamond} = \text{Box}$$

$$\text{White Hexagon} \cdot \text{Green Triangle} = \text{Grey Circle}$$

$$\text{White Hexagon} = \text{Box}$$

$$\text{Green Triangle} + \text{White Hexagon} + \text{White Hexagon} = \text{Grey Circle}$$

$$\text{Grey Circle} = \text{Box}$$

$$\text{Grey Circle} - \text{White Square} = 4$$

$$\text{Green Triangle} = \text{Box}$$

$$\text{Grey Circle} / \text{Green Triangle} - \text{White Hexagon} = 0$$

$$\text{White Square} = \text{Box}$$

$$\text{White Hexagon} + \text{Pink Triangle} = \text{White Square}$$

$$\text{White Hexagon} = \text{Box}$$

$$\text{White Hexagon} + \text{Pink Triangle} + \text{White Hexagon} = 14$$

$$\text{Orange Star} = \text{Box}$$

$$\text{White Square} / \text{Orange Star} = 5$$

$$\text{Pink Triangle} = \text{Box}$$

$$\text{White Square} - \text{Orange Star} - \text{Orange Star} = 6$$

$$\text{White Square} = \text{Box}$$

$$\text{Grey Circle} \cdot \text{Orange Hexagon} \cdot \text{Orange Hexagon} = \text{White Square}$$

$$\text{Grey Circle} = \text{Box}$$

$$\text{Grey Circle} + \text{White Square} + \text{Orange Hexagon} = 17$$

$$\text{Orange Hexagon} = \text{Box}$$

$$\text{White Square} / \text{Grey Circle} = \text{Orange Hexagon} \cdot \text{Orange Hexagon}$$

$$\text{White Triangle} = \text{Box}$$

$$\text{White Triangle} - \text{Orange Hexagon} = \text{Grey Circle}$$

$$\text{White Square} = \text{Box}$$

Answers

Find the values of the shapes. The values are whole numbers.

$$\text{Yellow Circle} / \text{White Triangle} \cdot \text{White Triangle} = 5$$

$$\text{Yellow Circle} = 5$$

$$\text{Yellow Circle} + \text{White Diamond} + \text{Grey Hexagon} = 30$$

$$\text{Grey Hexagon} = 5$$

$$\text{White Diamond} / \text{White Triangle} = 5$$

$$\text{White Triangle} = 4$$

$$\text{Grey Hexagon} \cdot \text{White Triangle} = \text{White Diamond}$$

$$\text{White Diamond} = 20$$

$$\text{White Hexagon} \cdot \text{Green Triangle} = \text{Grey Circle}$$

$$\text{White Hexagon} = 3$$

$$\text{Green Triangle} + \text{White Hexagon} + \text{White Hexagon} = \text{Grey Circle}$$

$$\text{Grey Circle} = 9$$

$$\text{Grey Circle} - \text{White Square} = 4$$

$$\text{Green Triangle} = 3$$

$$\text{Grey Circle} / \text{Green Triangle} - \text{White Hexagon} = 0$$

$$\text{White Square} = 5$$

$$\text{White Hexagon} + \text{Pink Triangle} = \text{White Square}$$

$$\text{White Hexagon} = 4$$

$$\text{White Hexagon} + \text{Pink Triangle} + \text{White Hexagon} = 14$$

$$\text{Orange Star} = 2$$

$$\text{White Square} / \text{Orange Star} = 5$$

$$\text{Pink Triangle} = 6$$

$$\text{White Square} - \text{Orange Star} - \text{Orange Star} = 6$$

$$\text{White Square} = 10$$

$$\text{Grey Circle} \cdot \text{Orange Hexagon} \cdot \text{Orange Hexagon} = \text{White Square}$$

$$\text{Grey Circle} = 3$$

$$\text{Grey Circle} + \text{White Square} + \text{Orange Hexagon} = 17$$

$$\text{Orange Hexagon} = 2$$

$$\text{White Square} / \text{Grey Circle} = \text{Orange Hexagon} \cdot \text{Orange Hexagon}$$

$$\text{White Triangle} = 5$$

$$\text{White Triangle} - \text{Orange Hexagon} = \text{Grey Circle}$$

$$\text{White Square} = 12$$