

Shape Algebra 4 Variables

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

$$\text{pentagon} + \text{triangle} = 9$$

$$\text{pentagon} = \text{box}$$

$$\text{triangle} + \text{triangle} = \text{pentagon}$$

$$\text{star} = \text{box}$$

$$\text{star} \cdot \text{square} = \text{pentagon}$$

$$\text{triangle} = \text{box}$$

$$\text{pentagon} - \text{star} + \text{square} = 1$$

$$\text{square} = \text{box}$$

$$\text{triangle} \cdot \text{triangle} = \text{square}$$

$$\text{hexagon} = \text{box}$$

$$\text{circle} + \text{square} + \text{hexagon} = 38$$

$$\text{circle} = \text{box}$$

$$\text{circle} - \text{square} = 4$$

$$\text{triangle} = \text{box}$$

$$\text{square} + \text{triangle} \cdot \text{triangle} = 32$$

$$\text{square} = \text{box}$$

$$\text{hexagon} \cdot \text{triangle} = 10$$

$$\text{hexagon} = \text{box}$$

$$\text{triangle} + \text{hexagon} + \text{hexagon} = 12$$

$$\text{star} = \text{box}$$

$$\text{star} \cdot \text{hexagon} = 15$$

$$\text{triangle} = \text{box}$$

$$\text{star} \cdot \text{hexagon} - \text{square} = 13$$

$$\text{square} = \text{box}$$

$$\text{pentagon} + \text{square} + \text{triangle} = 10$$

$$\text{circle} = \text{box}$$

$$\text{triangle} + \text{circle} + \text{circle} = 7$$

$$\text{pentagon} = \text{box}$$

$$\text{square} - \text{pentagon} = 1$$

$$\text{triangle} = \text{box}$$

$$\text{pentagon} + \text{square} + \text{square} = 11$$

$$\text{square} = \text{box}$$

Answers

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

$$\text{pentagon} + \text{triangle} = 9$$

$$\text{pentagon} = 6$$

$$\text{triangle} + \text{triangle} = \text{pentagon}$$

$$\text{star} = 3$$

$$\text{star} \cdot \text{square} = \text{pentagon}$$

$$\text{triangle} = 3$$

$$\text{pentagon} - \text{star} + \text{square} = 1$$

$$\text{square} = 2$$

$$\text{triangle} \cdot \text{triangle} = \text{square}$$

$$\text{hexagon} = 2$$

$$\text{circle} + \text{square} + \text{hexagon} = 38$$

$$\text{circle} = 20$$

$$\text{circle} - \text{square} = 4$$

$$\text{triangle} = 4$$

$$\text{square} + \text{triangle} \cdot \text{triangle} = 32$$

$$\text{square} = 16$$

$$\text{hexagon} \cdot \text{triangle} = 10$$

$$\text{hexagon} = 5$$

$$\text{triangle} + \text{hexagon} + \text{hexagon} = 12$$

$$\text{star} = 3$$

$$\text{star} \cdot \text{hexagon} = 15$$

$$\text{triangle} = 2$$

$$\text{star} \cdot \text{hexagon} - \text{square} = 13$$

$$\text{square} = 2$$

$$\text{pentagon} + \text{square} + \text{inverted triangle} = 10$$

$$\text{circle} = 2$$

$$\text{inverted triangle} + \text{circle} + \text{circle} = 7$$

$$\text{pentagon} = 3$$

$$\text{square} - \text{pentagon} = 1$$

$$\text{inverted triangle} = 3$$

$$\text{pentagon} + \text{square} + \text{square} = 11$$

$$\text{square} = 4$$