



## Problem of the Week

### Problem B

#### Symbolic Shapes

In each question, each shape ( $\square$ ,  $\bigcirc$ ,  $\triangle$ ) is equal to the same whole number. For example,  $\square + \square = 8$  implies that  $2 \times \square = 8$ , so  $\square = 4$ . (The value of each shape can change from question to question.)

Determine the value of each shape in each question.

(a)

$$\square + \square = 8$$

$$\bigcirc + \square = 10$$

(b)

$$\square + \square + \square = 18$$

$$\square + \bigcirc + \bigcirc = 14$$

$$\bigcirc + \square + \triangle = 18$$

(c)

$$\bigcirc + \bigcirc + \bigcirc = 24$$

$$\square \times \bigcirc + \square = 36$$

$$\triangle \times \square + \triangle = 25$$

(d)

$$2 \times \triangle = 28$$

$$\triangle - 10 = \bigcirc$$

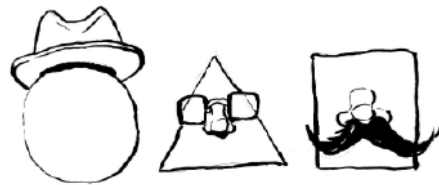
$$\bigcirc + \square + \square = 10$$

(e)

$$\square + \triangle + \triangle = 21$$

$$\triangle + \bigcirc - \square = 9$$

$$\square + \square = 18$$



EXTENSION: Create a similar problem and challenge a classmate to solve it.