SUBSTITUTION PUZZLE
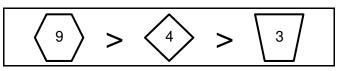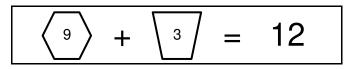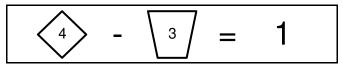
The three shapes below are each given a value. Each value is a whole number and is between 0 and 10. Use the clues below to determine each shape's value.

⬡9 > ◇4 > ⬓3   ⬡9 + ⬓3 = 12

◇4 - ⬓3 = 1   ⬓3 + ◇4 = 7

⬡9 = __9__   ◇4 = __4__   ⬓3 = __3__

Solve the problems by replacing the shapes with their values. This is called *SUBSTITUTION*.

1. ⬡9 + ◇4 + ⬓3 + ◇4 = __20__

2. ◇4 × ⬓3 + ⬡9 = __21__

> DON'T FORGET ABOUT THE *ORDER OF OPERATIONS*. FOR EXAMPLE: YOU MULTIPLY BEFORE YOU ADD OR SUBTRACT.

3. ⬡9 - ◇4 + ⬓3 = __8__

4. ⬓3 × ⬓3 - ⬡9 = __0__

5. ⬡9 + ◇4 × ◇4 = __25__

6. ◇4 × ⬓3 - ⬓3 × ⬓3 = __3__

7. ⬓3 + ⬡9 × ⬡9 + ⬓3 = __87__

8. ⬡9 + ◇4 - ⬓3 + ⬡9 - ◇4 = __15__

9. ◇4 × ⬓3 - ⬓3 × ⬓3 + ⬡9 = __12__