

Lesson 1f: Problem Solving – Find a Pattern

Objective: Look for a pattern to solve a problem

Complete on a separate sheet of paper and turn in to the basket.

Warm-up:

Use exponents to write each number in expanded form.

1. 3,049
2. 415,620
3. 70,738

Write each number in standard form

4. $(1 \times 10^3) + (7 \times 10^2) + (8 \times 10^1) + (2 \times 10^0)$
5. 2^3
6. 7^1

To find a pattern in a word problem, ask yourself:

Understand:

- What facts do I know?

Plan:

- How can I organize the facts?
- Can I find a pattern?
- Will a table help me to organize the facts?

Solve:

- Did I organize the facts correctly?
- Did I describe the pattern?
- Did I continue the pattern correctly?

Look Back:

- Did I answer the question?
- Did I solve the problem?

Find the Pattern.

Input	4	7	2	6
Output	20	35	10	30

Input	16	32	25	10
Output	8	24	17	2

Complete Pattern Worksheet

Practice: Complete in your journal

1. The value of a rare stamp from Thailand is \$130 in 1990, \$150 in 1995, \$170 in 2000, and \$190 in 2005. What would the value of the stamp be in 2010 if the pattern continues?

Value in 2010 = _____

What is the pattern = _____

2. Michelle writes the following series of numbers.

0.014; 0.034; _____; 0.074; 0.094

What is the missing number in the pattern? What is the rule?

Math Resources

- <http://education.jlab.org/placevalue/>
- http://www.eduplace.com/kids/mw/quiz/g_5.html

Homework: Find a pattern (HW 1.6)