

# Patterns - PLOs Across Grades 2–6

## GRADE 2

### *Patterns*

- B1 demonstrate an understanding of repeating patterns (three to five elements) by
- describing
  - extending
  - comparing
  - creating
- patterns using manipulatives, diagrams, sounds, and actions. [C, CN, PS, R, V]
- B2 demonstrate an understanding of increasing patterns by
- describing
  - reproducing
  - extending
  - creating
- patterns using manipulatives, diagrams, sounds, and actions (numbers to 100) [C, CN, PS, R, V]

## GRADE 3

### *Patterns*

- B1 demonstrate an understanding of increasing patterns by
- describing
  - extending
  - comparing
  - creating
- patterns using manipulatives, diagrams, sounds, and actions (numbers to 1000) [C, CN, PS, R, V]
- B2 demonstrate an understanding of decreasing patterns by
- describing
  - extending
  - comparing
  - creating
- patterns using manipulatives, diagrams, sounds, and actions (numbers to 1000) [C, CN, PS, R, V]

## GRADE 4

### *Patterns*

- B1 identify and describe patterns found in tables and charts, including a multiplication chart [C, CN, PS, V]
- B2 reproduce a pattern shown in a table or chart using concrete materials [C, CN, V]
- B3 represent and describe patterns and relationships using charts and tables to solve problems [C, CN, PS, R, V]
- B4 identify and explain mathematical relationships using charts and diagrams to solve problems [CN, PS, R, V]

## GRADE 5

### *Patterns*

- B1 determine the pattern rule to make predictions about subsequent elements [C, CN, PS, R, V]

## GRADE 6

### *Patterns*

- B1 demonstrate an understanding of the relationships within tables of values to solve problems [C, CN, PS, R]
- B2 represent and describe patterns and relationships using graphs and tables [C, CN, ME, PS, R, V]

# Hundred Chart Pattern

Start at \_\_\_\_\_. Go up by \_\_\_\_\_ each time.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

# ~ Exploring a Geometric Pattern ~

Consider the pattern below, then answer each question.  
**Be sure to explain your reasoning for each one.**

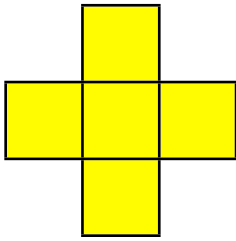


Figure 1

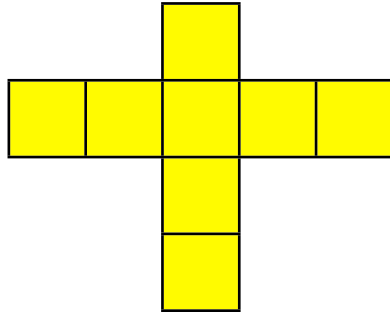


Figure 2

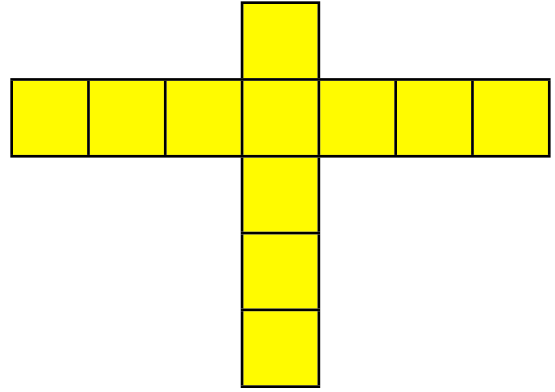


Figure 3

1. Describe what Figure 4 would look like.

2. Complete the table below:

Figure #	1	2	3	4	5	6
# of squares						

3. How many squares would be in Figure 10?

4. What is the pattern rule for this pattern?

A

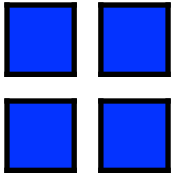


Fig. 1

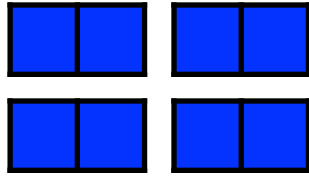


Fig. 2

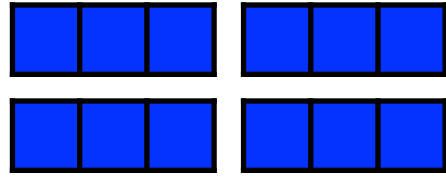


Fig. 3

B

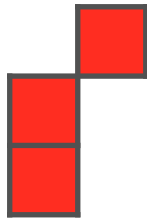


Fig. 1

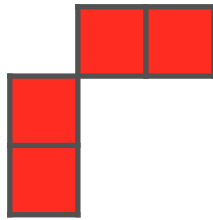


Fig. 2

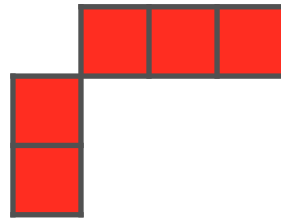


Fig. 3

C

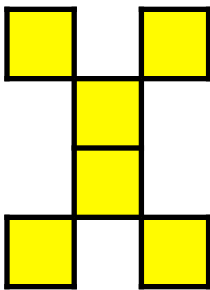


Fig. 1

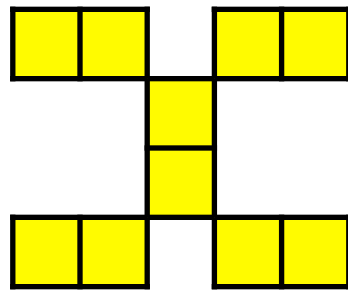


Fig. 2

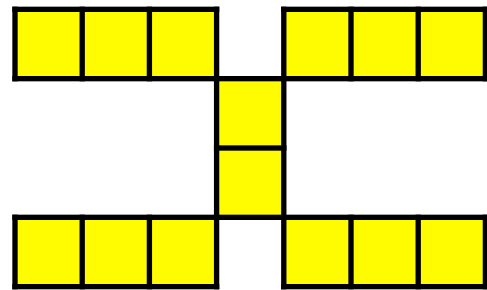


Fig. 3

**A**

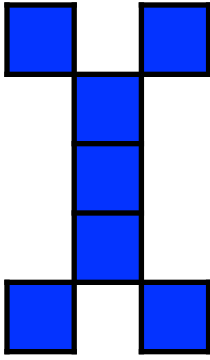


Fig. 1

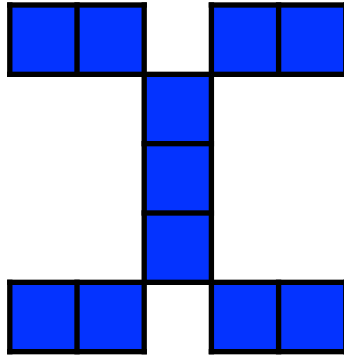


Fig. 2

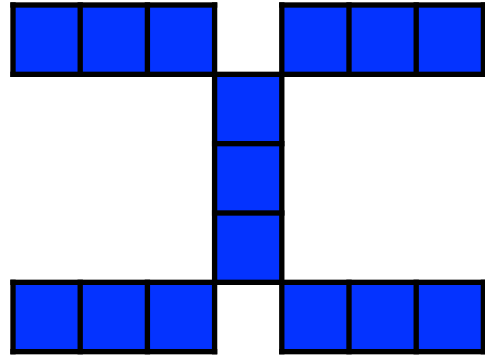


Fig. 3

**B**

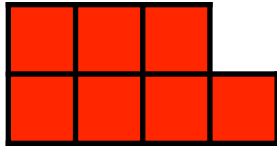


Fig. 1

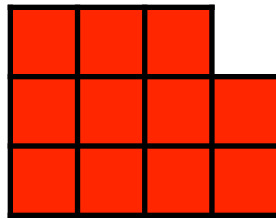


Fig. 2

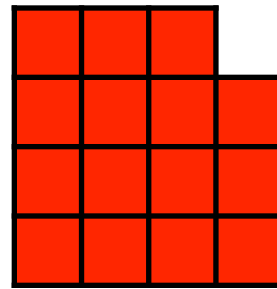


Fig. 3

**C**

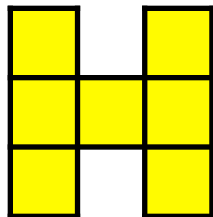


Fig. 1

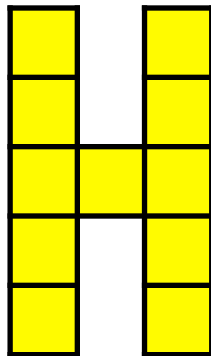


Fig. 2

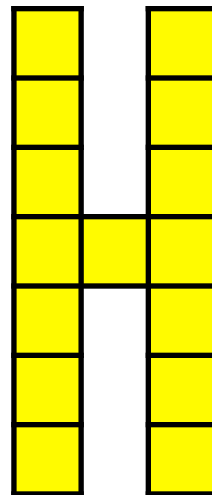


Fig. 3

A

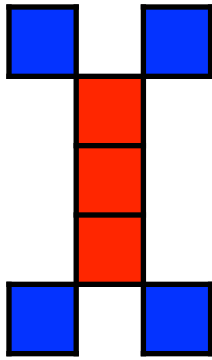


Fig. 1

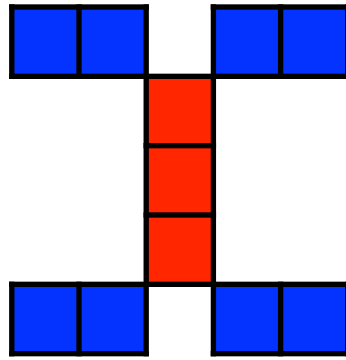


Fig. 2

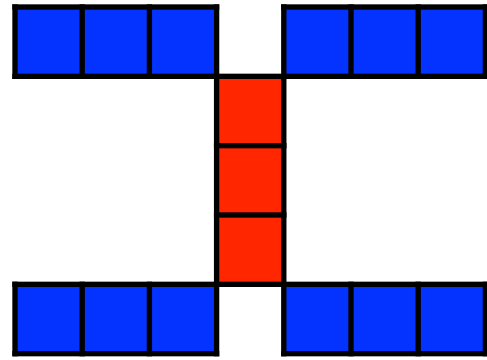


Fig. 3

B

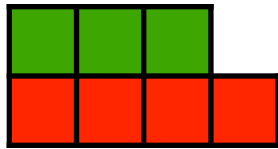


Fig. 1

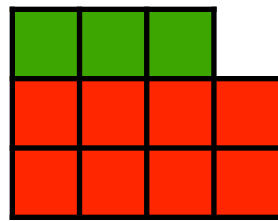


Fig. 2

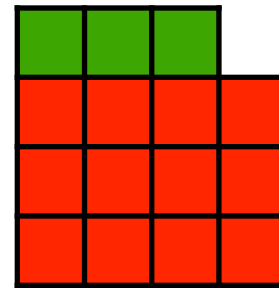


Fig. 3

C

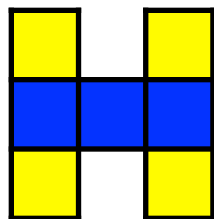


Fig. 1

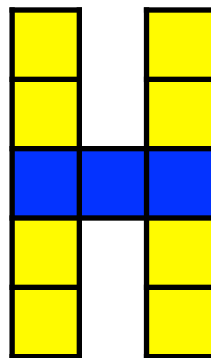


Fig. 2

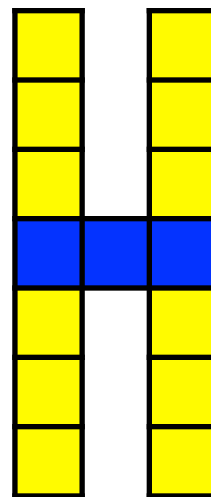


Fig. 3