Number Pattern Makers

Use repeated addition and subtraction.

1.PAR.3.2 · Identify, describe, and create growing, shrinking, and repeating patterns based on the repeated addition or subtraction of 1s, 2s, 5s, and 10s.

Name _____ Date _____

Describe the changes

Write or say the rule and the next term for each row.

Pattern	Rule	Next
4, 6, 8		
25, 20, 15		
10, 20, 30		

Create a growing pattern

Choose a start and add 1, 2, 5 or 10 each time. Write four terms. Tell your rule.

Create a shrinking pattern

Choose a start and subtract 1, 2, 5 or 10 each time. Write four terms that stay at or above zero. Tell your rule.

Create a repeating number pattern

Choose a starting number and a step of 1, 2, 5 or 10. Add the step, then subtract the same step. Show six terms and tell what repeats.

Teaching and assessment

Read directions aloud as needed. Let children inspect the printed stimuli before responding. Accept pointing, drawing or oral explanation. Do not supply the core or rule. Assess the pattern, not artistic neatness.

1

Add 2 → 10; subtract 5 → 10; add 10 → 40.

2

Answers vary; four terms follow chosen repeated addition.

3

Answers vary; four nonnegative terms follow chosen subtraction.

4

Example: start 3, step 2 gives 3,5,3,5,3,5. Check both operations and repeated two-term core.