

Name _____

Number Patterns

Learning Target: Describe, extend,
and complete number patterns.



Explore and Grow

Create a number pattern using four of the numbers below.
Write the four numbers in the pattern.

30

125

140

90

130

120

0

135

150

60

Have your partner extend the pattern.

How can you describe the pattern?

Think and Grow

This pattern starts at 150.
Each number is 25 more.
So, the rule is "add 25."

150, 175, 200, 225, 250, 275, 300



This pattern starts at 430.
Each number is 70 less.
So, the rule is "subtract 70."

430, 360, 290, 220, 150, 80, 10



Show and Grow

Write a rule for the pattern. Write the missing numbers.

1. 58, 158, 258, 358, _____, _____, _____

2. 931, 933, 935, 937, _____, _____, _____

3. 630, 615, 600, 585, _____, _____, _____

4. 800, 770, 740, 710, _____, _____, _____

5. 0, 140, 280, 420, _____, _____, _____

Name _____



Apply and Grow: Practice

Write a rule for the pattern. Write the missing numbers.

6. 350, 370, 390, 410, _____, _____, _____

7. 69, 64, 59, 54, _____, _____, _____

8. 201, 231, 261, 291, _____, _____, _____

9. 767, 717, 667, 617, _____, _____, _____

Complete the pattern. Write the missing numbers.

10. 610, 530, _____, 370, _____, _____, 130

11. 120, 230, _____, _____, _____, 670, 780

12. **DIG DEEPER!** Extend the pattern. Write the missing numbers.

20, 70, 65, 115, 110, 160, 155, _____, _____, _____, _____



Think and Grow: Modeling Real Life

Each year, Newton measures the distance from the water to the end of the sand on a beach. The distances follow a pattern. Complete the table. Is the distance less than 110 feet in 2018? How do you know?



Year	Distance
2012	180 feet
2013	
2014	158 feet
2015	147 feet
2016	
2017	125 feet
2018	

Yes No

Show and Grow

13. The same number of students have their picture taken each hour. Complete the table. Will all of the students have their picture taken by 3:00? How do you know?

Yes No

Time	Students who still need picture taken
9:00	275
10:00	230
11:00	
12:00	140
1:00	95
2:00	
3:00	

Learning Target: Describe, extend, and complete number patterns.

This pattern starts at 406.
Each number is 30 more.
So, the rule is "add 30."

406, 436, 466, 496, 526, 556, 586



This pattern starts at 75.
Each number is 2 less.
So, the rule is "subtract 2."

75, 73, 71, 69, 67, 65, 63



Write a rule for the pattern. Write the missing numbers.

1. 87, 187, 287, 387, _____, _____, _____

2. 265, 280, 295, 310, _____, _____, _____

3. 692, 682, 672, 662, _____, _____, _____

4. 24, 20, 16, 12, _____, _____, _____

Complete the pattern. Write the missing numbers.

5. 516, 525, _____, 543, _____, 561, _____

6. 375, 350, _____, 300, _____, _____, 225

7. **MP Patterns** Write a rule for the pattern below. Then write a pattern of 5 different numbers that uses the same rule.

48, 60, 72, 84, 96

8. **Modeling Real Life** The number of pages of a book you have left to read each day follows a pattern. Complete the table. Will you finish reading the book after 8 days? How do you know?

Day	1	2	3	4	5	6	7
Number of pages left	56	48		32		16	

Yes No

Review & Refresh

9. There are 50 water balloons in a bucket. 17 are green. 11 are pink. The rest are yellow. How many water balloons are yellow?

_____ yellow water balloons