



Count by 7 Multiple Representations of Numbers

Monthly Math Calendar Patterns

Aligned with the BC Math Curriculum

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Multiple Representations Count By 7s

Pattern Overview

This month's pattern represents numbers in multiple ways while having students practice counting by sevens. Representations include numerals, base ten blocks, word form, place value charts and expanded form.

Preparation

The Cards

1. Print the Calendar Quest cards on white cardstock for best results. The cards are designed at a 10cmx10cm size, it maybe necessary to scale them to fit your calendar pocket chart.
2. Cut the cards out on the black lines
3. Place the cards printed side facing towards the pocket chart in your calendar pocket chart.

The Observations Chart

1. On a sheet of chart paper draw vertical lines to create four columns
 - a. Date
 - b. Representation
 - c. Number
2. Fill in the date column for this month
3. Hang up your observations chart

Daily Activities

Day 1 - Introducing the Calendar Quest

1. Gather students where they can clearly see the Calendar Quest and blank observations chart.
2. Invite students to share what they notice about the Callender Quest
3. Invite students to share what they wonder about the Callender Quest
4. Reveal the cards for the days that have already passed (IE if it's the 5th display cards for the 1st, 2nd, 3rd and 4th.)
5. Make observations about the cards that have already been revealed
6. Make predictions for today's card
7. Reveal today's card
8. Share what you notice and wonder
9. Make predictions for what could be on the card tomorrow

Days 2-7 updates

1. Repeat as above

Day 8 introducing the observations chart

1. Have students share what they know about this month's pattern so far
2. Ask students what they notice about the observations chart
3. Draw attention to the number column, ask students what they think it's four
4. Fill in the number column for all the previous days
5. Draw student attention to the representations column
6. Fill in the representations column for all the previous days
7. Make predictions for today's card
8. Reveal today's card
9. Add today's card to the observations chart
10. Share what you notice and wonder
11. Make predictions for what could be on the card tomorrow

Days 9-15 Updates

1. Repeat as above

Day 16 changes

1. Gather students where they can clearly see the calendar quest and observation chart

Final day of the month

2. Have students complete the calendar extender sheet

Sample Calendar Quest Observation Chart

Date	Number	Representation	Change
1	7	Numeral	
2	14	Word	+7
3	21	Base Ten Blocks	+7
4	28	Expanded Form	+7
5	35	Place Value Chart	+7
6	42	Numeral	+7
7	49	Word	+7
8	56	Base Ten Blocks	+7
9	63	Expanded Form	+7
10	70	Place Value Chart	+7
11	77	Numeral	+7
12	84	Word	+7
13	91	Base Ten Blocks	+7
14	98	Expanded Form	+7
15	105	Place Value Chart	+7
16	112	Numeral	+7
17	119	Word	+7
18	126	Base Ten Blocks	+7
19	133	Expanded Form	+7
20	140	Place Value Chart	+7
21	147	Numeral	+7
22	154	Word	+7
23	161	Base Ten Blocks	+7
24	168	Expanded Form	+7
25	175	Place Value Chart	+7
26	182	Numeral	+7
27	189	Word	+7
28	196	Base Ten Blocks	+7

29	203	Expanded Form	+7
30	210	Place Value Chart	+7
31	217	Numeral	+7

Calendar Quest Cards

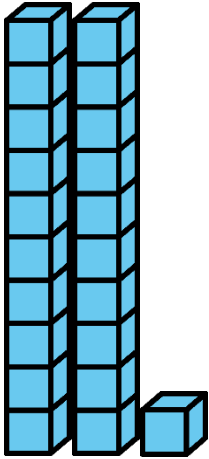
1.

7

2.

Fourteen

3.



4.

$$20 + 8$$

5.

Hundreds	Tens	Ones
	3	5

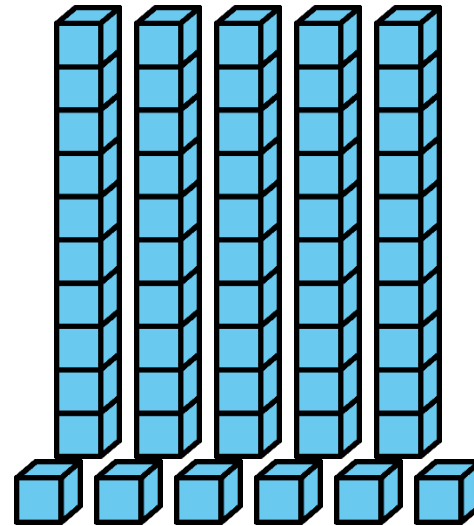
6.

42

7.

Forty-nine

8.



9.

$$60 + 3$$

10.

Hundreds	Tens	Ones
	7	0

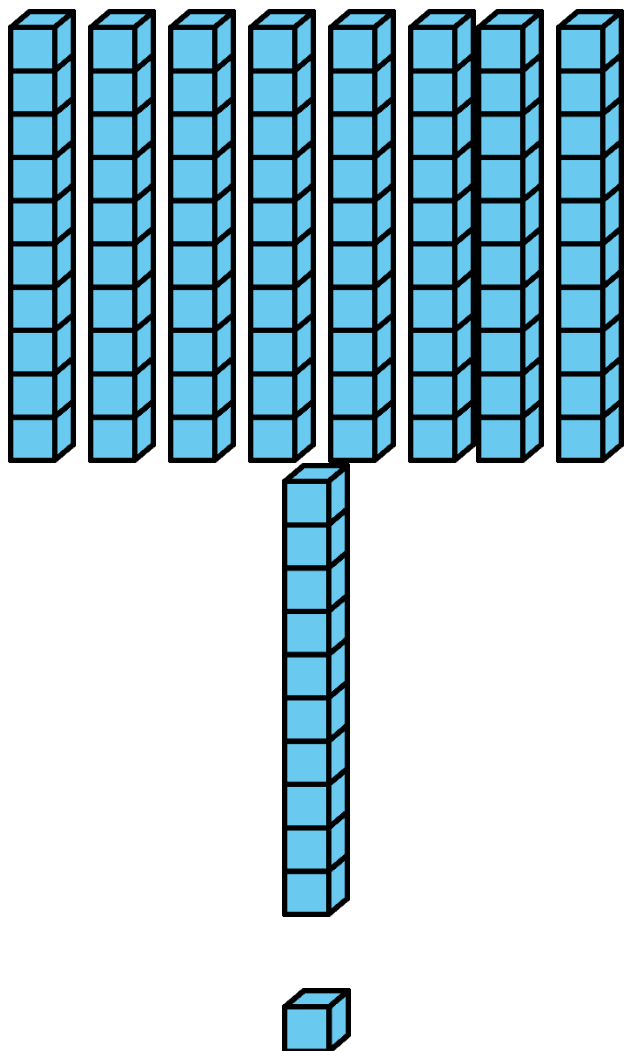
11.

77

12.

Eighty-four

13.



14.

$$90 + 8$$

15.

Hundreds	Tens	Ones
1	0	5

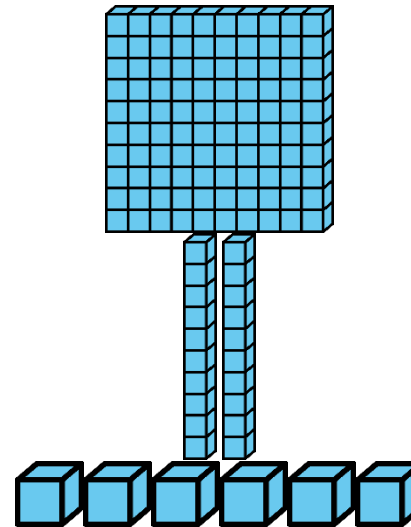
16.

112

17.

One
hundred
nineteen

18.



19.

$$100+30+3$$

20.

Hundreds	Tens	Ones
1	4	0

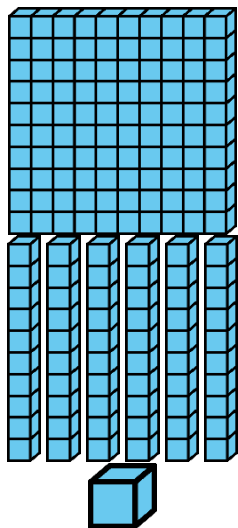
21.

147

22.

One
hundred
fifty-four

23.



24.

$$100+60+8$$

25.

Hundreds	Tens	Ones
1	7	5

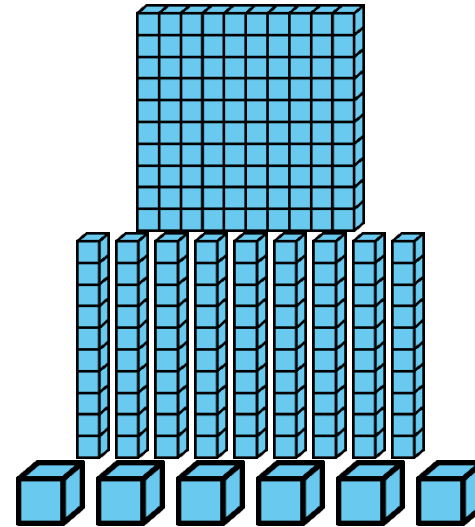
26.

182

27.

One
hundred
eighty-nine

28.



29.

$$200+0+3$$

30.

Hundreds	Tens	Ones
2	1	0

31.

