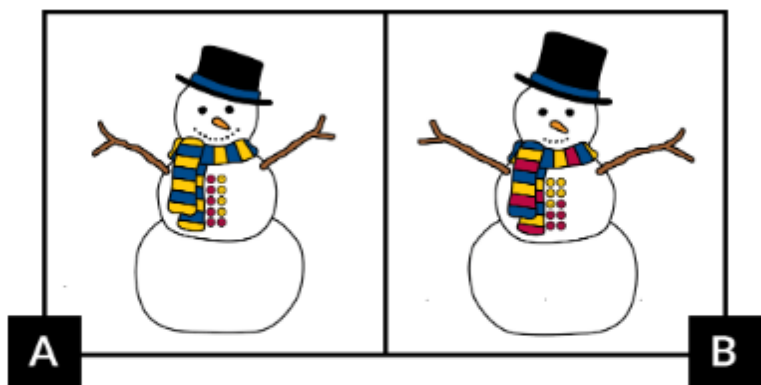


# January Math Newsletter

Grades K-1

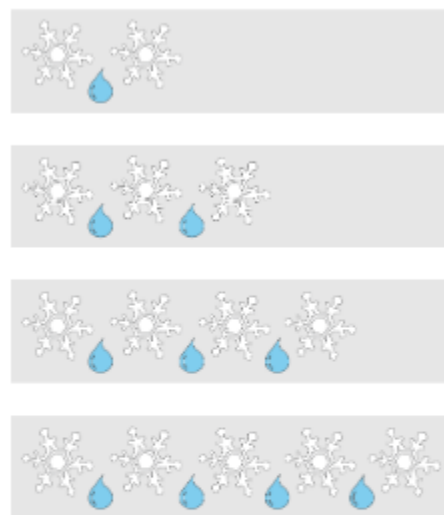
Take time with your family to talk and reason about math.

Look at the two pictures. What do you notice?



1. How are pictures A and B mathematically the same, and how are they different?
  - A and B are the same because...
  - A and B are different because...
2. Make a third picture of a snow person. Explain how your picture is the same as pictures A and B, and how it is different.

What do you notice? What do you wonder? What comes next?



Show or tell what the next few pictures look like. Describe how you know.

## Challenge

What would later or earlier pictures look like? Why do you think so?

## Follow-Up

Create your own weather pattern and share it with someone else. Ask them what comes next!

Flip over to see if your thinking matched ours **AND** to get links to interactive math games to play with your family at home.

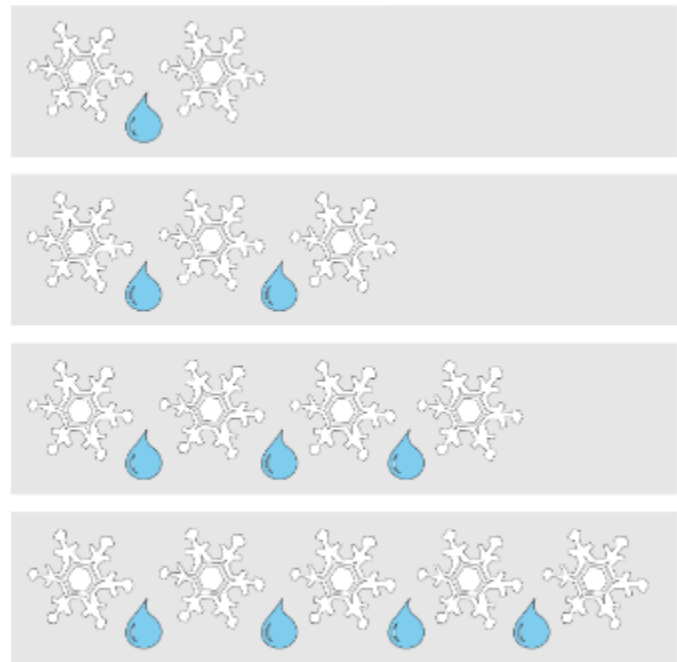
Possible thinking/reasoning for the activities on the front

- How are pictures A and B mathematically the same, and how are they different?
  - A and B are the same because they are both snow people. They both have 10 buttons that are red and yellow. They both have 1 black hat, 1 scarf, and 2 stick arms. They both are smiling and have 1 carrot nose. Both are made out of 3 balls of snow. Both have scarves with stripes.
  - A and B are different because A has 6 red buttons and 4 yellow buttons. B has 5 yellow buttons and 5 red buttons. The scarf in A has an AB pattern with yellow and blue stripes. The scarf in B has an ABC pattern with red, yellow, and blue stripes. A has a short hat. B has a tall hat. A has more dots for the smile than B.
- Make a third picture of a snow person. Explain how your picture is the same as pictures A and B, and how it is different.

Answers will vary. Here's one student's response:



My picture is the same as A and B because it's a snow person with 10 red and yellow buttons. It has a black hat, a carrot nose, and stick arms like A and B. It's different from A and B because I made a different combination of red and yellow buttons. I have 8 red and 2 yellow buttons. I also made a regular smile without dots and I didn't put a scarf on my snow person.



I notice:

- I see snowflakes and raindrops.
- There are more and more snowflakes and raindrops in each new picture.
- I count one more snowflake and one more raindrop in each picture.
- I see 2 snowflakes, then 3 snowflakes, then 4 snowflakes, and then 5 snowflakes.
- I see 1, 2, 3, and 4 raindrops.
- There are 2 snowflakes and 1 raindrop in the first picture, which makes 3. Then there are 3 snowflakes and 2 raindrops in the second picture, which makes 5.
- I notice it repeats snowflake, raindrop, snowflake, raindrop.

I wonder:

- Is it raining and snowing at the same time?
- How many snowflakes and raindrops will be in the next picture?
- Will there be one more of each in every new picture?

# Interactive Math Games

## Compare Weights of Objects Game

<https://www.splashlearn.com/s/math-games/compare-weights-of-objects>

## Complete the Data Game

<https://www.splashlearn.com/s/math-games/complete-the-data>

Type the URL into your computer, tablet or phone to play.

