



## Blizzard Bag – Day One

Mrs. McKibben and Mrs. Griffith  
4<sup>th</sup> Grade – Pickaway Elementary

We hope that you enjoy your snow day. Here are your required Blizzard Bag lessons to complete. They are due back at school when we return.

### Reading

“Winter” story and questions

*\*\*Try to make time to read for 15 minutes during the day also!!*

### Math

“Comparing Mittens” and “Layer Up With Numbers” worksheets

*\*\*Try to make time to practice your math facts during the day also!!*

### Social Studies

“Being a Good Citizen” worksheet

### Science

“Why is Snow White?” text and questions

Name: \_\_\_\_\_

# Winter

Winter is the best season of the year. During the winter months, temperatures are usually colder and there are fewer hours of daylight. The winter months in North America are December, January, February, and March.



Cold winter temperatures are caused by the tilting of the Earth. When Earth's Northern Hemisphere is tilted away from the sun, there are fewer hours of daylight and the temperature is colder. When the Northern Hemisphere tilts towards the sun, there is more daylight time and the temperatures are warmer. The tilting of the Earth as it spins causes the seasons to change.

Animals have special ways of preparing themselves for winter. Some animals, like birds and butterflies travel long distances, or migrate, to warmer temperatures during the winter months. Other animals go to sleep, or hibernate, during the winter. Bears, gophers, snakes, and bats hibernate. Squirrels and raccoons don't migrate or hibernate. Instead, they gather extra food during the fall months and store it away so they have plenty to eat during the winter.



In some areas, winter is a time when snow falls and gathers on the ground. People who live in these places can enjoy special winter activities like skiing, sledding, or snowboarding. They can also build snowmen and snow castles. When the water in lakes and ponds freeze, people can ice skate or play ice hockey. Some people even cut a hole in the ice and go ice fishing!

Name: \_\_\_\_\_

# Winter



Answer the following questions in complete sentences.

1. What are the winter months in North America?

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2. Is there more daylight time during the summer months or winter months?

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3. What causes the seasons to change?

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4. During the winter months, is the Northern Hemisphere tilted towards the sun or away from the sun?

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5. What does the word *hibernate* mean? List two animals that hibernate.

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6. What do squirrels and raccoons do to prepare for the winter?

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7. What does the word *migrate* mean?

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8. Name three activities mentioned in the article that require a frozen pond or lake.

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9. Which sentence in the first paragraph is an opinion?

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10. Write a short paragraph describing some things you like to do in the winter.

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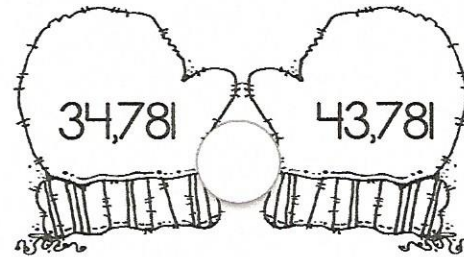
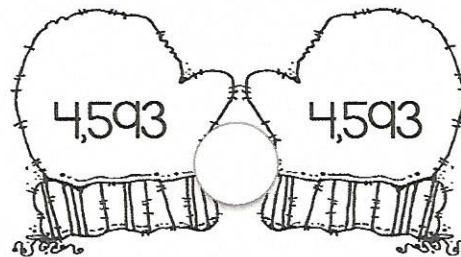
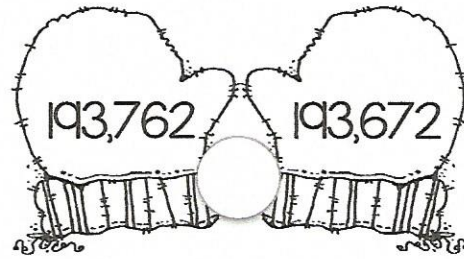
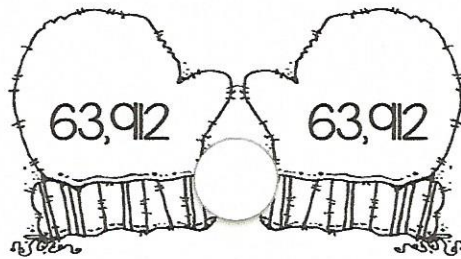
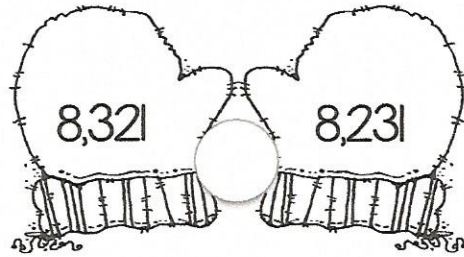
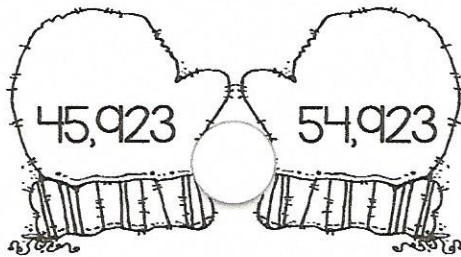
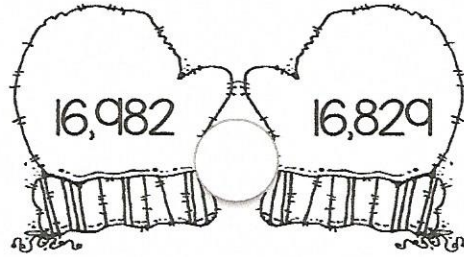
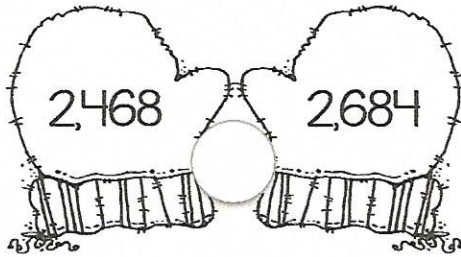
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Name \_\_\_\_\_

# Comparing Mittens




Directions: Compare each set of mittens.



Name \_\_\_\_\_

# Layer Up With Number Forms

Directions: Complete the missing number form to layer up. The first one is done for you.

 Base-ten numeral	 Number Name	 Expanded Form
3,482	three thousand, four hundred eighty-two	$3,000 + 400 + 80 + 2$
		$50,000 + 3,000 + 800 + 20 + 3$
	seventy-two thousand, four hundred ninety	
34,602		
	five thousand, two hundred sixty-four	
		$40,000 + 200 + 90 + 1$

**Blizzard Bag Assignment**  
**Being a Good Citizen**

Name \_\_\_\_\_

**Social Studies**

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1. A petition is a paper many people can sign to show their feelings about a topic. What is the best use for a petition?

- A. sharing ideas with the government
- B. playing a practical joke on a friend
- C. doing research for a school report
- D. writing a true story about a person

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2. Ways to create change in the government:

- vote in all elections
- write letters to representatives
- sign a petition
- \_\_\_\_\_

What belongs on the blank line?

- A. write new laws for the government to follow
- B. refuse to pay any taxes to the government
- C. tell your neighbor lies about the government
- D. help a person run for a government office

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3. Which of these is an example of someone affecting the government?

- A. Mrs. Young plants flowers in her garden.
  - B. Mr. Hendrick speaks at city council meetings.
  - C. Mr. Greene works at an elementary school.
  - D. Miss Lacey reads the local newspaper.
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4. Irene is unhappy that a manufacturing company in her city has been dumping waste in a open area at the edge of town. She thinks her state needs a law that limits pollution from companies.

What is the best way Irene can express her ideas to the government?

- A. She can protest outside the company.
  - B. She can call her state's lawmakers.
  - C. She can get people to sign a petition.
  - D. She can write a blog on the issues.
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5. Last year, a Girl Scout troop raised money to build a free doctor's office in their town.

How does this Girl Scout project promote the common good?

- A. It brings more tourists to the small town.
  - B. It gives everyone a place to get healthcare.
  - C. It shows that girls are smarter than boys.
  - D. It makes the girls work harder in school.
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6. Which person is making a difference in the community?

- A. Alexi walks his dog in the park in the evening.
  - B. Gordon plays the piano at the nursing home.
  - C. Kallie played in the championship soccer game.
  - D. Roger walks home with his sister after school.
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7. Students at the Town Creek Elementary School started a recycling program to promote the common good. They bring recyclable items to school and put them in the recycle bins.

What is one effect of students taking part in a recycling program?

- A. Students start to throw litter on the ground.
  - B. Students get to take care of the environment.
  - C. Students can compete against each other.
  - D. Students learn about how trash is collected.
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8. Every November, students at the George Washington Elementary School buy toys to give to poor children at Christmas.

How does the toy drive promote the common good?

- A. Students get to play with many new toys.
  - B. Students learn the best prices for the toys.
  - C. Students get to ride the school bus to the store.
  - D. Students work together to help kids in need.
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9. Some students in Mrs. Ryan's class started new organizations at school. A chart showing the organizations and student leaders is shown.

Student	Organization	Purpose
Keisha	Horse Lovers Club	to go horseback riding together
Abram	Tree Planting Club	to plant trees in parks and at school
Penelope	Writers Circle	to share short stories written by students
Kevin	The Country Band	to write and perform country music

Which student made an organization that performs a service for the community?

- A. Keisha
  - B. Kevin
  - C. Abram
  - D. Penelope
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10. Every summer, the Boy Scouts paint over graffiti on the walls at the park. How do the Boy Scouts promote the common good?

- A. They learn how to build more playground equipment.
- B. They make the park more beautiful for the community.
- C. They work hard enough to earn money for the troop.
- D. They get to practice their painting skills for art class.

Name: \_\_\_\_\_

# Why is snow white?

What color is snow? Is it white or colorless? If snow is frozen water, and ice appears clear, then why does snow appear white?

These may be questions you have asked yourself about snow. The correct answer: snow is white. Why? You first have to understand the color of frozen water, or ice.

If you look at ice, it is clear, or at least appears to be. Ice is **translucent**. Translucent means that *most* light passes through ice, but not all of it. Some light bends when passing through ice and some light bounces off of ice. If ice were actually clear, it would be **transparent**. Transparent means that ALL light passes straight through. For example, glass is transparent. You can see right through glass because all light passes through it.

Snow is frozen water crystals called snowflakes. Because snowflakes are made of ice, they are translucent. However, light passes through snowflakes differently than ice cubes or icicles. When light passes through snow, it bends and bounces around the snowflakes because snowflakes have a crystal shape.

Pure light is white. Therefore, light that bends and bounces around a cluster of snowflakes eventually bounces back at you as white light. This is why snow is white!



Why is snow white? continued

Directions: Use evidence from the reading to answer the following questions. Write your answers in complete sentences.

What does **translucent** means?

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What does **transparent** mean?

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Compare and contrast translucent to transparent.

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Is snow translucent or transparent?

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Why does snow look white?

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