Cohen Middle School
100 Robinwood Avenue
Elmira Heights, NY 14903
734-5078

Name: _____ Date: February 5, 2020____

**Math:** Continue w/ packet from Tuesday

hmwk: Test Review packet

**Social Studies:**

- Section I Geography of China

HW: Chinese New year/ Corrections due Feb 10

**ELA:** Daily Warm Up

Story Adaptation - Hachiko

**Science**

1. Check "SEASONS" Answers
2. "Hours of Daylight map" and Weather Advisory WS
3. create Length of Day Double Bar Graph

**Computer Apps/ Technology**

Name _____ Homework

**12.** Jeffrey builds wooden decks for his clients' houses. His standard deck uses a fixed amount of lumber. The table below shows how much lumber Jeffrey needs to buy for different numbers of decks.

**Lumber Needed**

| Number of Decks | Lumber (in sq ft) |
|---|---|
| 2 | 1,052 |
| 3 | 1,578 |
| 4 | 2,104 |
| 5 | 2,630 |
| 6 | 3,156 |
| 7 | ? |

Based on the data in the table, how much lumber would Jeffrey need to buy to build 7 standard decks?

**A.** 3,682 square feet

**B.** 3,718 square feet

**C.** 4,208 square feet

**D.** 6,312 square feet

**13.** An adult male giraffe can have a mass of as much as 1,360 kilograms. What is 1,360 kilograms in grams?

**A.** 1.36 g

**B.** 136 g

**C.** 13,600 g

**D.** 1,360,000 g



Go On ▶

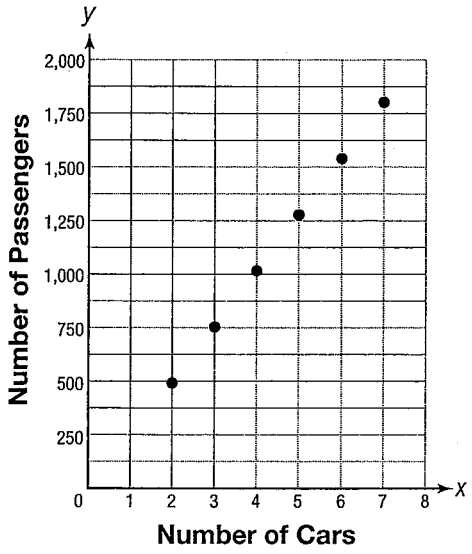
**15.** The table below shows the maximum capacities, including standing room, for different numbers of New York City subway cars.

**Capacities of Subway Cars**

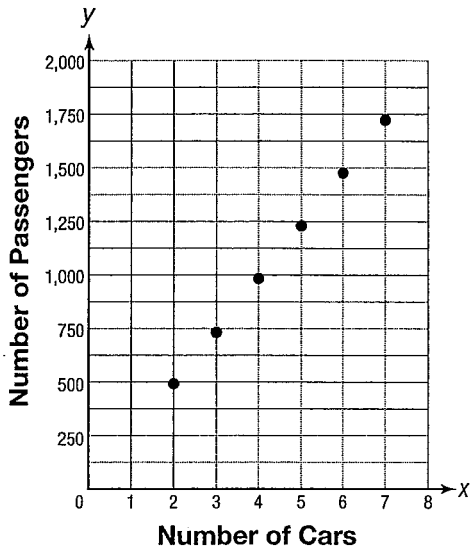
| Number of Cars | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| Number of Passengers | 492 | 738 | 984 | 1,230 | 1,476 | ? |

Which of the graphs below best reflects the data in the table and shows the capacity of 7 subway cars?

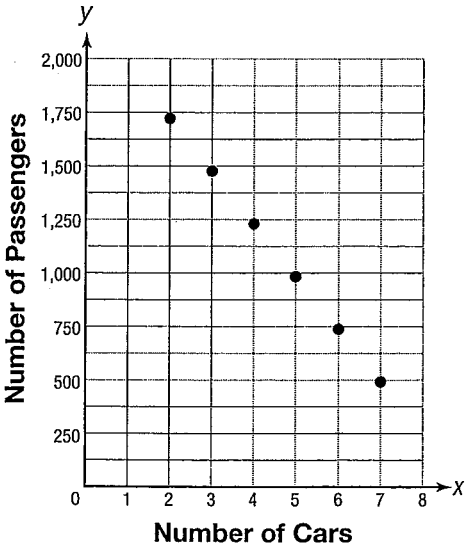
**A.**



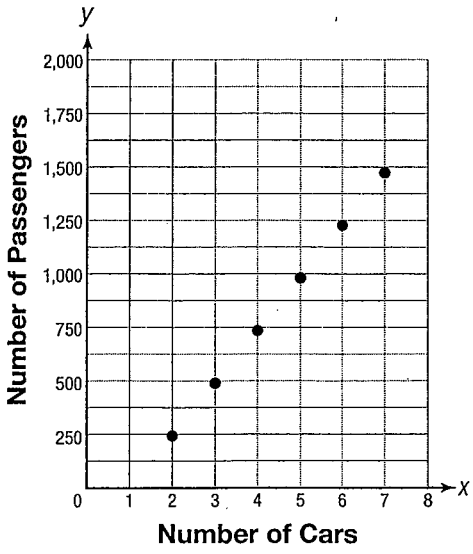

**C.**




**B.**




**D.**



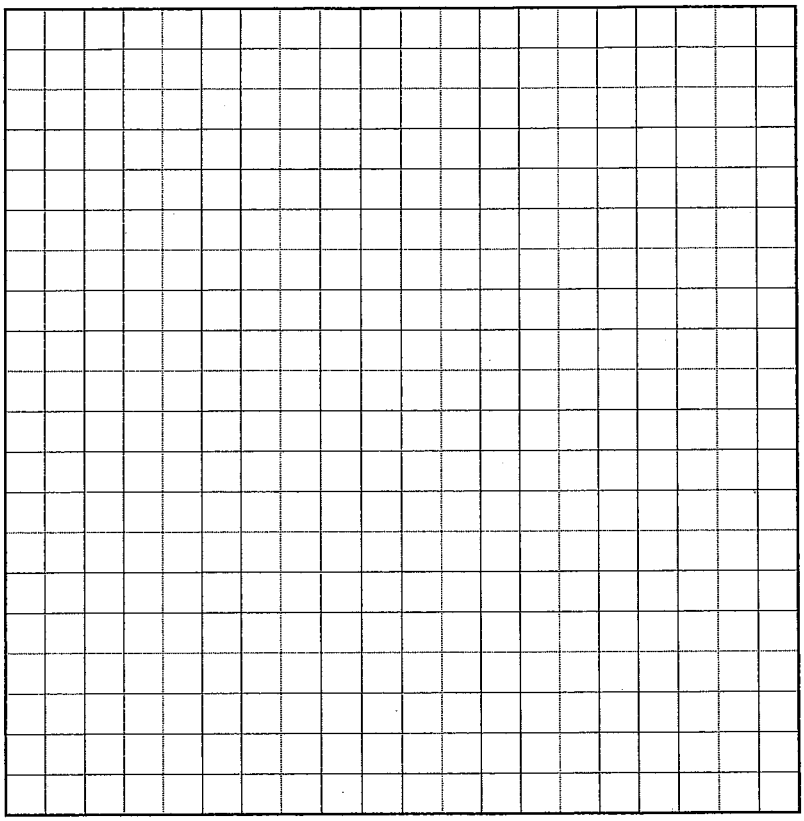



Go On ▶

**24.** A ferry company runs ferries from Maine to Prince Edward Island, Canada. The table below shows the maximum vehicle capacities for different numbers of ferries.

| **Number of Ferries** | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| **Number of Vehicles** | 500 | 750 | 1,000 | 1,250 | ? |

A. Use the grid below to graph the values in the table. Find the maximum vehicle capacity for 6 ferries and plot that point.



B. The unit rate in this situation is the maximum vehicle capacity per ferry. What is the unit rate? Explain your answer.

_____

_____

_____



*Go On* ▶

Packet for Tues & Wed Review

Name_____

# Ratios, Rates and Proportions

1) Write a ratio in simplest form that represents the number of **& (and)** symbols to the total number of figures? _____

& & & & % % % % @ @ @ @ @ @ @ @ @ @

2) Determine if each pair of ratios forms a proportion. Show your work.

$\frac{30}{80}$ and $\frac{12}{32}$ $\frac{12}{15}$ and $\frac{2}{3}$ $\frac{6}{9}$ and $\frac{14}{21}$

3) A local restaurant purchased 45 pounds of flour at a total cost of $38.25. Determine the unit cost per pound.

Check

Show Work:

Target Statement _____

_____

**Write each ratio as a <u>fraction</u> in simplest form.**

4) 48 : 76

5) 20 inches to 4 feet

**Find each unit rate. Round your answer to the nearest hundredth if necessary.**

6)_____ 640 miles in 25 hours

7)_____ $30.50 for 32 ounces of specialty cooking oil

Solve for the missing number in each proportion.

8) $\frac{24}{17} = \frac{m}{34}$ Check

9) $\frac{14}{a} = \frac{4}{14}$ Check:

10) $\frac{5}{9} = \frac{3}{y}$ Check:

11) $\frac{5}{7} = \frac{13}{p}$ Check!

**#'s 12- 15 Solve each of the following. Show your work.**

12) Use a proportion to determine whether or not the two items below contain an equal proportion of fat.

**Steak**: A 20 ounce steak contains 6 ounces of fat.
**Hamburger:** A 6 ounce hamburger contains 0.75 ounces of fat.

Target Statement _____

_____

13) A 12 ounce can of Coke costs $0.50 when purchased from the soda machine at the school. An 18 ounce bottle of Pepsi from the soda machine at the local gas station costs $1.25. Find the unit cost of each to determine which location has the less expensive soda per ounce?

Show Work: Check:

Target Statement _____

_____

14) The ratio of boys to girls at the dance was 9 to 5. How many boys were at the dance if there were 85 girls at the dance?

Show Work:

Target Statement _____

_____

15) The ratio of teachers to students in a school is 2 to 45. How many teachers are in the school if there is a total of 1410 students and teachers altogether in the school?

Target Statement _____

_____

16) **Constructed Response**

Seven notebooks at the school supply store cost $4.76.

**Step A**
What is the unit rate? _____

**Step B**
Explain how you determined your answer to Step A. Use words, numbers, and/or symbols in your explanation.

_____

_____

_____

_____

_____

- How much would it cost to purchase 3 of these notebooks?

Show Work:

Target Statement _____

_____

17) **Constructed Response**

A machine can make 28 items in a 8 minute time period.

**Step A**
How many items could this machine make in a 14 minute time period?

_____

**Step B**

- Use what you know about proportions to explain how you determined your answer to Step A. Use words, numbers, and or symbols in your explanation.

_____

_____

_____

_____

- How many items could this machine make in a three hour time period?

_____ Show Work:

Target Statement _____

_____

**Selected Response**

**18)_____Which ratio is equivalent to 48:72?**

A) 3:4 B) 2:3 C) 8:10 D) 7:9

**19)_____Which ratio is equivalent to $\frac{21}{56}$?**

A) $\frac{4}{7}$ B) $\frac{12}{15}$ C) $\frac{12}{32}$ D) $\frac{4}{12}$

**20)_____Which ratio is equivalent to $\frac{7}{8}$?**

A) $\frac{2}{7}$ B) $\frac{42}{48}$ C) $\frac{35}{56}$ D) $\frac{21}{32}$

**21)_____Which ratio is equivalent to $\frac{21}{35}$?**

A) $\frac{3}{4}$ B) $\frac{36}{90}$ C) $\frac{9}{16}$ D) $\frac{3}{5}$

Name: Date:

WRITING TO SOURCES ▸ STORY ADAPTATION

# Hachiko: The True Story of a Loyal Dog

Pamela S. Turner

A **story adaptation** is a fictional narrative that is changed or revised. Adapting a story may involve changing the format, for example from a play to a short story. It may also involve changing certain features of the story, such as the setting, the protagonists, and the point of view or perspective from which the story is told.

**A. DIRECTIONS:** Gather information from the story about Hachiko's actions and relationships with different people. Then write a short description of what these actions tell you about Hachiko. The details you find will help you write a story adaptation from Hachiko's point of view. Complete the following chart to help you get started. Part of the chart has been completed for you.

| HACHIKO'S ACTIONS AND RELATIONSHIPS | WHAT YOU CAN INFER ABOUT HACHIKO |
|---|---|
| **Beginning:** He waits patiently for Dr. Ueno at the station and then bounds over to him. | He knows what time it is, and he loves Dr. Ueno. |
| **Middle** | |
| **Ending:** | |

**B. DIRECTIONS:** Use the information from your analysis of the story to complete an outline of your adaptation. The first part has been completed for you.

I. Beginning:

Every day, I (Hachiko) wait at the train station for Dr. Ueno.

II. Middle:

**A.** I go to the train station to wait for Dr. Ueno, but he never comes. I feel confused.

**B.** _____

**C.** _____

III. Conclusion:

_____

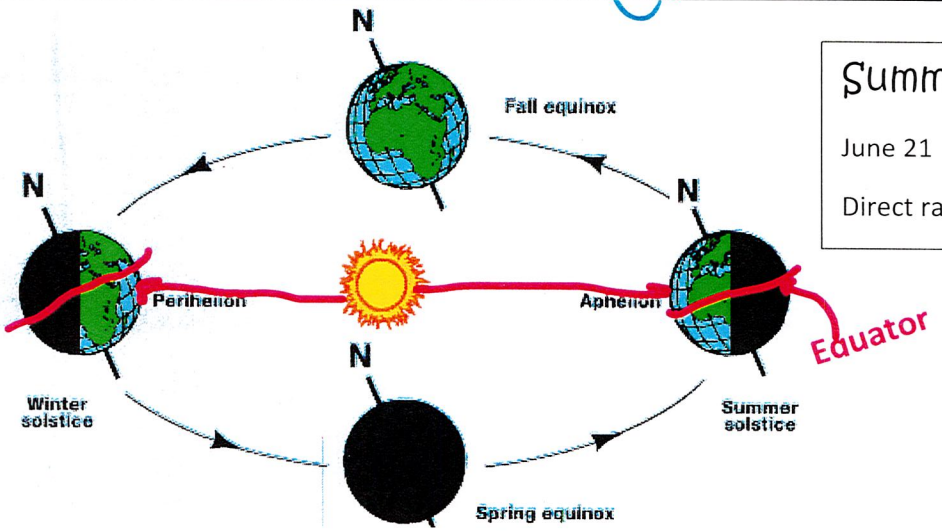
Teacher copy- use this to check your own work please

7. Equator **SEASONS ARE OPPOSITE** (Page 18 – 19)

## Winter Solstice

December 21st

Direct Rays on the Tropic of Capricorn




## Summer Solstice

June 21

Direct ray on Tropic of Cancer

Directions: In this section read, then compare the Winter Solstice and the Summer Solstice. Use evidence from the text, in addition to what you have learned so far to fill in the chart below (Earth's seasons in the N. Hemisphere)

| | Summer Solstice | | | Winter Solstice | | |
|---|---|---|---|---|---|---|
| **Dates** | June 21st | | | December 21st | | |
| **Leaning of Earth** is toward, away, or perpendicular | Toward the sun | Away from the sun | Perpendicular to the sun | Toward the sun | Away from the sun | Perpendicular to the sun |
| **Day length** | Shorter days | longer days | equal day / night | Shorter days | longer days | equal day / night |
| Latitude of **Direct Rays** (Tropic of Cancer, Capricorn, Equator | Tropic of Cancer | Equator | Tropic of Capricorn | Tropic of Cancer | Equator | Tropic of Capricorn |

Directions: Using separate graph paper, create a double bar graph of the "Length of Daylight in the Northern Hemisphere. Use RED for Summer Blue for Winter Solstice. Use an appropriate Scale along the X-Axis for Hours of Daylength, and Y-Axis is the Latitude, °N

X- Bar #1 ↓ BAR #2 ↙ Title

**LENGTH OF DAYLIGHT IN THE NORTHERN HEMISPHERE**

| Latitude (°N) | Summer solstice | Winter solstice | Equinoxes |
|---|---|---|---|
| 0 | 12 hr. | 12 hr. | 12 hr. |
| 10 | 12 hr. 35 min. | 11 hr. 25 min. | 12 hr. |
| 20 | 13 hr. 12 min. | 10 hr. 48 min. | 12 hr. |
| 30 | 13 hr. 56 min. | 10 hr. 04 min. | 12 hr. |
| 40 | 14 hr. 52 min. | 9 hr. 08 min. | 12 hr. |
| 50 | 16 hr. 18 min. | 7 hr. 42 min. | 12 hr. |
| 60 | 18 hr. 27 min. | 5 hr. 33 min. | 12 hr. |
| 70 | 24 hr. 00 min. | 0 hr. 00 min. | 12 hr. |
| 80 | 24 hr. 00 min. | 0 hr. 00 min. | 12 hr. |
| 90 | 24 hr. 00 min. | 0 hr. 00 min. | 12 hr. |

See Attached Graph Paper; We set up the graph together in class.

Please finish for HW.

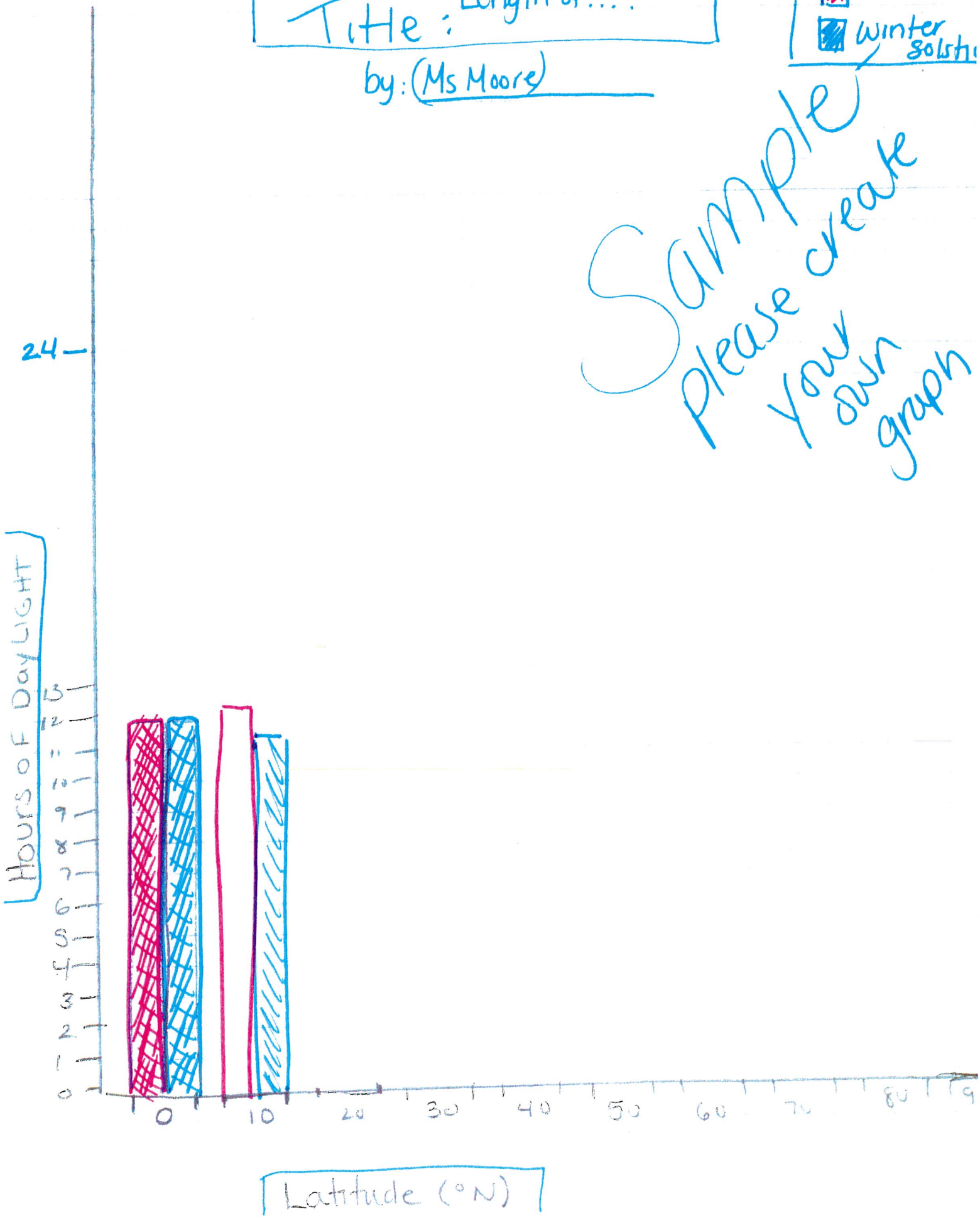
Title: Length of....

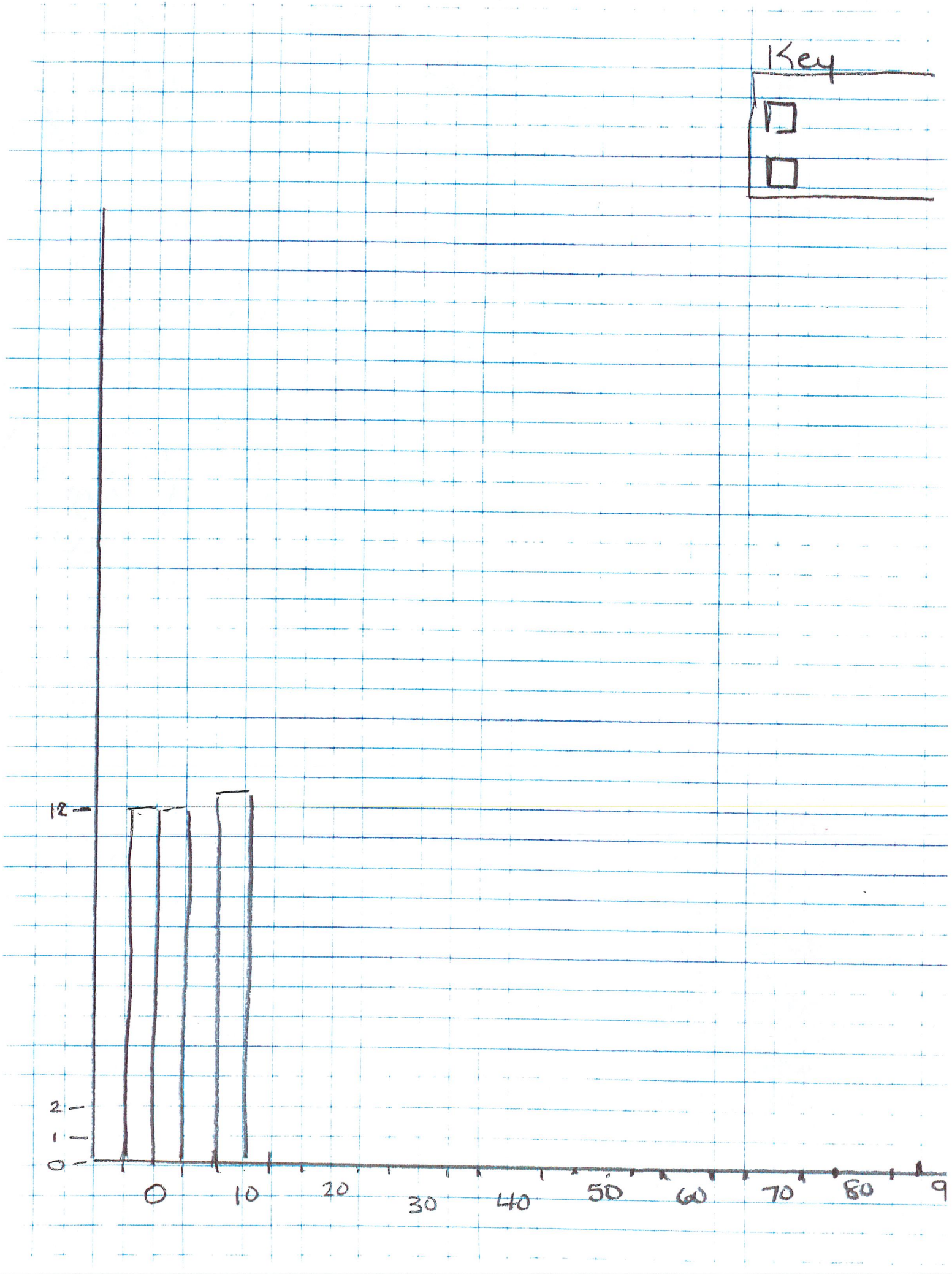
by: (Ms Moore)

Key

winter solsti

Sample
Please create
Your
own
graph

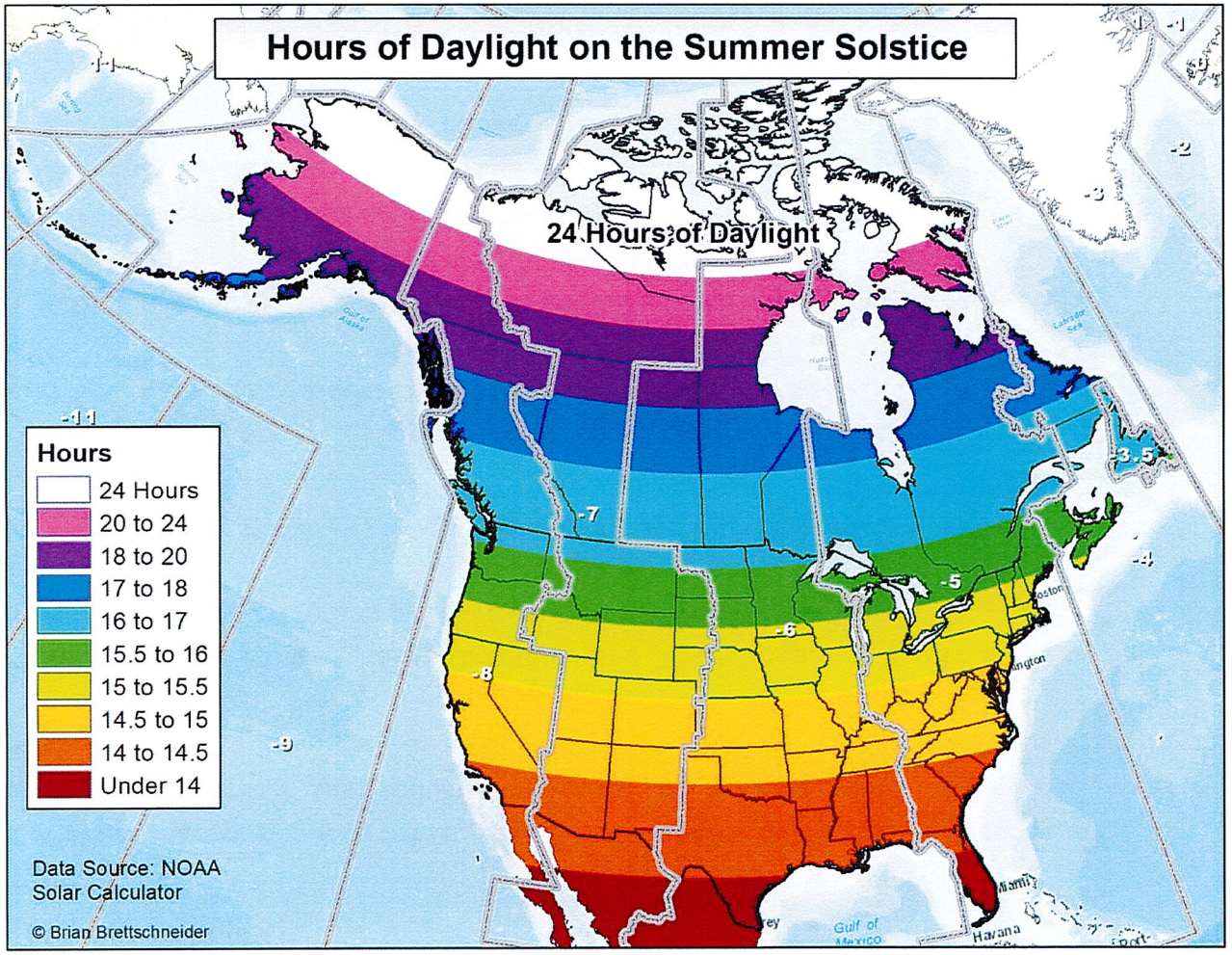



Key
12
2
1
0
0
10
20
30
40
50
60
70
80
9

warm-up

Name: _____ Date: February 5, 2020; **Science 6**, Period: **2 3 5 6 7**

Directions: Make observations of the image below. Fill in the chart to the side, then write a sentence below to summarize Summer Solstice in the Northern Hemisphere.




## Summer Solstice

In the Northern Hemisphere...

Starts on this **DATE:**

**When Earth is leaning...**
Toward the sun
Away from the Sun
Or
Perpendicular to the Sun

And the **Direct Rays** are on the:
Tropic of Cancer,
Capricorn,
or Equator

**Which makes day length...**
Longer
Shorter
equal

Now put it all together and Summarize Summer Solstice:

_____

_____

# WINTER WEATHER ADVISORY

**ISSUED: 3:52 AM FEB. 5, 2020 – NATIONAL WEATHER SERVICE**

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...WINTER WEATHER ADVISORY IN EFFECT FROM 8 PM THIS EVENING TO 10 AM EST THURSDAY...

* WHAT...Mixed precipitation expected. Total snow accumulations of 1 to 2 inches and ice accumulations of up to one tenth of an inch.

* WHERE...The Finger Lakes to Southern Tier areas of Central New York.

* WHEN...From 8 PM this evening to 10 AM EST Thursday.

* IMPACTS...Plan on slippery road conditions. The hazardous conditions will impact the Thursday morning commute.

* ADDITIONAL DETAILS...Snow will develop this evening, which will transition to sleet and freezing rain late tonight into Thursday morning. Valleys may get warm enough for freezing rain to change to rain shortly after dawn Thursday, but it may take until late morning to get above freezing at higher elevations.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

Slow down and use caution while traveling.

Source:
www.weatherunderground.com

## Winter Weather Advisory:

Date: _____

Effective

_____

_____

_____

What: _____

_____

_____

Where: _____

Dangers /Impacts:

_____

_____

_____

Prepare by:

_____

_____

_____