Sum up the News – November 2nd, 2015

Vocabulary

1. If |X| is greater than Y and then which of the following must be true?

A. $X > Y$

B. $X < Y$

C. $X^2 > Y^2$

D. $X^3 > Y^3$

2. Which of the following points is the same distance from the origin as the point (7, 24)?

A. (-30, -1)

B. (-20, -15)

C. (14, 12)

D. (0, 31)

3. $\overleftrightarrow{FG}$ intersects $\overline{JK}$ at point L. If both $\overline{GJ} \cong \overline{GK}$ and $\overline{FJ} \cong \overline{FK}$ then the measure of $\angle FLJ =$ ____.

A. 45°

B. 90°

C. 180°

D. 360°

Based on the article "More drivers, more gridlock, more delays" on page A1 of the Monday, October 26th, Seattle Times.

4. Traffic has become a major concern for the Seattle Metropolitan area and while the total miles that people drive in the state has not increased dramatically, traffic congestion is now 20% higher along most of the I-5 corridor than it was in 2007. In 2014, vehicles traveled 58.1 billion miles on Washington's roads, 2.6% more than they had in 2012. What was the average annual increase in vehicle miles traveled in 2013 and 2014?

A. 150 million miles

B. 740 million miles

C. 760 million miles

D. 1.5 billion miles

5. If vehicle miles traveled in the state continues to increase at the same annual rate, in how many years will they reach 100 billion miles?

A. 2033

B. 2042

C. 2057

D. 2071

6. From 2012 to 2014, total vehicle registration in Washington state increased by 7%. If vehicles registered in Washington accounted for all the miles travelled in it, by what percentage would the average vehicle's miles traveled have changed from 2012 to 2014?

A. Average miles travelled decreased by 4.4%

B. Average miles travelled deceased by 4.1%

C. Average miles travelled increased by 4.3%

D. Average miles travelled increased by 4.4%

7. From 2012 to 2014, the state raised $2.9 billion from its gas tax of $0.375 per gallon. Given the total vehicle miles travelled in the state, what is the approximate average fuel efficiency of the vehicles in miles per gallon?

A. 7.5 miles per gallon

B. 15 miles per gallon

C. 20 miles per gallon

D. 22 miles per gallon

Based on the article "Runaway military blimp goes down in Pennsylvania" on page A2 of the Thursday, October 29th, Seattle Times.

8. A military surveillance blimp broke loose from its ground station in Aberdeen, Maryland at 12:20 p.m. It crashed 150 miles away in rural Pennsylvania. While it was attached to the ground, it had been floating at an altitude of 10,000 feet but after breaking free it rose in the air

to a peak of 16,000 feet by 3:00p.m. The blimp finally crashed at 4:30pm. If the blimp's rate of descent was constant from 3:00 p.m., how quickly was it descending when it reached the ground in feet per second?

A. 0.7 feet per second

B. 2.0 feet per second

C. 3.0 feet per second

D. 180 feet per second

9. A 6,700-foot-long cable attached to the blimp eventually struck power lines in Pennsylvania as it neared the ground. Due to the cable trailing behind the blimp at an angle, the cable did not reach the ground until the blimp had descended to 5,800 feet. How far behind the blimp's location was the point where the bottom of the cable was dragging along the ground

A. 900 feet

B. 2,100 feet

C. 3,350 feet

D. 8,860 feet

10. While the blimp was floating 5,800 feet off the ground with its cable trailing behind it, what was the approximate angle the cable formed with the ground as it was being dragged behind the blimp?

A. 30°

B. 45°

C. 60°

D. 90°

Sum Up the News is posted to the Web on Tuesdays. Please share the NIE program with other teachers. To sign-up for the electronic edition of the newspaper please call 206/652-6290 or toll-free 1-888/775-2655.