

Sum Up the News – October 11th, 2016

Vocabulary

1. The lines on the coordinate plane are created by the equations $y = 6$ and $x = 3$. These two lines can be described as _____.

- A. being congruent
- B. having opposite slopes
- C. being parallel
- D. being perpendicular

2. Three lines, \overleftrightarrow{FG} , \overleftrightarrow{JK} and \overleftrightarrow{LM} , are all on the same plane. If L is the midpoint of \overleftrightarrow{FG} and M is the midpoint of \overleftrightarrow{JK} , then which of the following statements must be true?

- A. \overleftrightarrow{FG} and \overleftrightarrow{JK} are parallel.
- B. \overleftrightarrow{FK} is equal to \overleftrightarrow{GJ} .
- C. \overleftrightarrow{LM} is a transversal.
- D. Quadrilateral FGKJ is a parallelogram.

3. Three lines pass through a point, F. If \overleftrightarrow{FH} bisects $\angle GFJ$ and \overleftrightarrow{FJ} bisects $\angle HFK$, then what is the ratio of $m\angle GFH$ to $m\angle HFK$?

- A. 1 to 1
- B. 1 to 2
- C. 1 to 3
- D. 1 to 4

Based on the article “Husky football: Can winning ways turn around ticket sales?” on page A1 of the Friday, October 7th, Seattle Times.

4. Examine the table titled “Revenue generated by ticket sales at Husky Stadium” on page A1. In which year did single ticket game sales account for the largest percentage of revenue?

- A. 2011
- B. 2013
- C. 2014
- D. 2015

5. Examine the table titled “Revenue generated by ticket sales at Husky Stadium” on page A1. How did the average cost of a student ticket change from the beginning of the time period to the end?

- A. Tickets decreased in price by 11.7%
- B. Tickets decreased in price by 13.3%
- C. Tickets increased in price by 9.9%
- D. Tickets increased in price by 24.4%

6. The UW athletics program will most likely run a deficit this year, as well as in 2017 and 2019. The program does have a \$30 million reserve to cover the funding shortfalls. The deficit for this year is projected to be \$14.8 million, and the reserve fund is projected to be reduced to just \$10 million after the 2019 season. If the 2017 deficit is expected to be three times larger than the 2019 deficit, then what will be the deficit in 2019 if the current deficit projections hold true.

- A. \$1.3 million
- B. \$2.6 million
- C. \$3.9 million
- D. \$5.0 million

Based on the article “State farmers to help feed bigger appetite for quinoa” on page A10 of the Friday, October 7th, Seattle Times.

7. Lundberg farms expects to produce 2 million pounds of quinoa this year. The U.S. now has about 4,000 acres of quinoa growing. If roughly a third of the total acreage growing quinoa in the U.S. is under contract with Lundberg, then how many tons of quinoa are they expecting to harvest from each acre?

- A. 0.25 tons
- B. 0.75 tons
- C. 1.5 tons
- D. 2.25 tons

8. In 1992, global quinoa production was just 600 tons annually, as the grain was popular only in South America. By 2012, production had soared to reach 37,000 tons per year. If global quinoa production grew exponentially from 1992 on, how much was being produced globally in the year 2005?

- A. 1,900 tons
- B. 8,700 tons
- C. 15,000 tons
- D. 24,000 tons

Based on the article “A first for light rail: 101K riders in a day” on page B1 of the Friday, October 7th, Seattle Times.

9. Seattle’s Link light rail system has achieved higher and higher daily ridership numbers. It recently carried 101,000 passengers in one day, the first day with six-digit ridership. The Link light rail operates from 5 am to 1 a.m. every day. The cars on the trains comfortably hold 150 passengers but can hold a maximum of 200 people. The trains typically consist of just two cars each, but the system has begun running three-car trains during some peak periods to accommodate the larger number of passengers. How many more trains would they need to run each hour to carry all the passengers if the system used all two-car trains instead of all three-car trains?

- A. 3.7 more trains per hour
- B. 4.4 more trains per hour
- C. 8.8 more trains per hour
- D. 13.2 more trains per hour

10. Roughly 2 million people rode in August and the average weekday daily ridership was 69,000. If there were 4 weekends in August, what was the average daily ridership during the weekends of the month?

- A. 32,000 riders
- B. 35,000 riders
- C. 44,000 riders
- D. 52,000 riders

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