

Sum up the News – February 2nd - 2015

Vocabulary

1. In the graph of the absolute value equation $y = 3|x - 4| - 6$, how far apart are the x-intercepts?
 - A. 4 units apart
 - B. 6 units apart
 - C. 8 units apart
 - D. 12 units apart
2. A bicyclist moves at a speed of 20 feet per second for 10 seconds and then at a speed of 15 feet per second for 75 feet. What was the bicyclist's average speed for the entire time they were moving?
 - A. 17.5 ft. /s
 - B. 18.3 ft. /s
 - C. 22.4 ft. /s
 - D. 27.5 ft. /s
3. Triangle FGH has an area of 36 sq. units. If J is the midpoint of \overline{FG} and K is the midpoint of \overline{GH} , then what is the area of quadrilateral FJKH?
 - A. 9 sq. units
 - B. 12 sq. units
 - C. 24 sq. units
 - D. 27 sq. units

Based on the article “Report: 1 in 6 Americans join Amazon Prime” on page A13 of the Tuesday January 26th, Seattle Times.

4. By the end of the 2015 holiday shopping season, one in six Americans had joined Amazon Prime. This represented a 35% increase over 2014's population of Prime members. The US population now stands at 322 million and has grown by 1% in the past year. How many Amazon Prime members were there at the end of 2014?
 - A. 19 million
 - B. 32 million

C. 40 million

D. 70 million

5. The 54 million households that pay to be part of Amazon Prime now rival the reach of Costco's paid memberships. Costco has 83 million paid members in 45 million households. If $\frac{1}{3}$ of Amazon Prime households also belong to Costco, how many households pay to belong to either Amazon Prime, Costco or both?

A. 81 million

B. 90 million

C. 99 million

D. 117 million

6. Amazon Prime members spend \$1,100 each year at the site, twice as much as non-members spend. If 45% of Amazon's users are Prime members, then how much do Amazon's users now spend at the site each year?

A. \$89 billion

B. \$96 billion

C. \$110 billion

D. \$130 billion

Based on the article "UW sees 18% rise in applications to be a Husky" on page A1 of the Friday, January 29th, Seattle Times.

7. The 6,500 more applications that the UW received this year represent a 17.6% increase over those received last year. That growth is even faster than last year's increase of 16% over applications in 2014. How many applications did the University of Washington receive in 2014?

A. 31,100

B. 31,400

C. 31,800

D. 32,500

8. Examine the graph titled "Freshman applications" on page A10. In 2012, approximately what percentage of UW applicants were from outside the United States?

- A. 18%
- B. 23%
- C. 31%
- D. 38%

9. Examine the graph titled “Freshman applications” on page A10. Applications from out-of-state students soared this year, increasing by 26% over last year. Many more International students also applied, and the 10,750 who applied was 19% more than in 2015. If the total number of applications increased by 17.6%, then by what percentage did in-state applications increase this year?

- A. 1%
- B. 2%
- C. 4%
- D. 6%

10. Much of the increase in the applications to the UW is coming from prospective out-of-state and international students. The increase in these applications will likely lead to a decrease in their acceptance rates. While last year, in-state students were accepted at a 65% rate, out-of-state students were only accepted 53% of the time and international students even less often: at a rate of just 39%. What was the overall acceptance rate last year for the UW?

- A. 52%
- B. 53%
- C. 54%
- D. 55%

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