

Sum up the News – February 8th - 2016

Vocabulary

1. A parabola on the coordinate plane passes through the x-axis at the points (0, 8) and (0, -2). Which of the following is a possible equation for the parabola?

- A. $y = -4(x - 6)^2 + 6$
- B. $y = 4(x - 3)^2 - 10$
- C. $y = -2(x + 3)^2 + 12$
- D. $y = -2(x - 3)^2 - 10$

2. Rectangle JKLM has an area of 60 square units. If side length \overline{JK} has a length of 5 units, then what is the length of \overline{KM} ?

- A. $\sqrt{119}$ units
- B. 12 units
- C. 13 units
- D. 17 units

3. A circle is graphed on coordinate plane with its center at the origin. If the point (4, 4) is on the circle, then what is the circle's area?

- A. $4\sqrt{2}\pi$
- B. 8π
- C. 16π
- D. 32π

Based on the article “Snapchat to older set: Embrace the ghost” on page A13 of the Monday, February 1st, Seattle Times

4. Snapchat’s user base is much younger on average than other social media sites. 6/10^{ths} of people in the U.S. between the ages of 13 and 35 are now on Snapchat, but the older demographics have begun adopting it. Now 12% of Snapchat’s U.S. users are in the 35 to 54 age range, and 2% are older than that. How many people in the U.S. are between the ages of 13 and 35?

- A. 70 million
- B. 72 million
- C. 74 million
- D. 77 million

5. Mobile apps continue to take up more and more of people’s time. Smartphone has increased to 37 hours per month. Those between 35 and 44 years of age, who comprise 14.3% of the populace, use the smartphones an average of 43 hours per month. How many more hours do 35-44 year olds spend on their phone each month than people outside that age range?

- A. 5 hours
- B. 7 hours
- C. 11 hours
- D. 17 hours

6. Facebook is now used by 3/4ths of all adults with internet access, including 64% of those aged 50 to 65. Of the country’s roughly 320 million people, 65% are adults under 65 years of age with internet access. What percentage of adults under 50 with internet access are Facebook users?

- A. 79%
- B. 81%
- C. 83%
- D. 85%

Based on the article “Super Bowl tickets still not sure thing since little has changed” on page A1 of the Tuesday, February 2nd, Seattle Times.

7. Last year, in the final week before the Super Bowl, the prices of tickets to the shot up as the numbers of available tickets dwindled. While tickets had already reached the astonishing average price of \$5622.50 on the Wednesday prior to the game when there were 4,755 tickets available, the prices shot up even higher the next day. On Thursday, with just 1,592 tickets available, the average price reached \$8,051.21. If the average price of the tickets increased linearly as the number of tickets decreased, how many tickets would have to be available for the average price to have reached \$9,000?

- A. 356 tickets
- B. 489 tickets
- C. 643 tickets
- D. 796 tickets

8. Examine the graph titled “Where tickets go” on page A1. Levis stadium can seat 75,000. There are 32 teams in the NFL. What is the average number of seats available to the teams that are not participating in the game?

- A. 900 tickets
- B. 950 tickets
- C. 1000 tickets
- D. 1200 tickets

Based on the article “Bills to allow automatic voter registration” on page B2 of the Sunday, February 8th, Seattle Times.

9. Recent elections have seen record low voter participation in Washington state. In 2015 just 38% of eligible voters cast votes and in 2014 just 54% did. In 2012, during the last presidential election when 81% of the registered voters cast ballots, just 75% of the voting-age adults were even registered to vote. The percentage of eligible voters who are registered declined by 3 percentage points from 2012 till now. If automatic voter registration resulted in nearly 100% registration across the state, and a similar percentage of registered voters participated in the upcoming presidential election as did in 2012, how many more votes would there be this coming November?

- A. 22%
- B. 28%
- C. 33%
- D. 39%

10. The population of adults eligible to vote has increased by 3% since 2012. How many registered Washington voters actually voted in 2012?

- A. 5,080,000
- B. 5,120,000
- C. 5,150,000
- D. 5,210,000

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