

Sum up the News – January 17th, 2017

Vocabulary

1. A quadratic function is graphed on the coordinate plane. If the vertex of a parabola is located at the point $(-3, 8)$, which of the following pairs of points could be on the curve?

- A. $(-7, 8)$ and $(1, 8)$
- B. $(-7, 16)$ and $(7, 16)$
- C. $(-6, 13)$ and $(3, 13)$
- D. $(-7, 3)$ and $(1, 3)$

2. If the perimeter of a rectangle is 48 inches then what is the largest possible area of the rectangle?

- A. 144 sq. in.
- B. 320 sq. in.
- C. 432 sq. in.
- D. 576 sq. in.

3. Circle M has an area of 36 square units. Points N and O are on the circle and $\angle NMO$ measure 60° . What is the length of the minor arc \widehat{NO} ?

- A. $2\sqrt{\pi}$
- B. 2π
- C. 6π
- D. 12π

Based on the article “VC funding in state jumped late last year, unlike U.S.” on page A10 of the Wednesday, January 11th, Seattle Times.

4. Washington companies had a strong 4th quarter pulling in financing. Venture Monitor found that 81 Washington companies brought in a combined \$541.3 million in venture capital funding in the fourth quarter of 2016, a 170% increase from the same period a year earlier. Funding for all of 2016 was down 26% to \$1.56 billion. What was the average amount of money was raised by Washington companies in each of the first 3 quarters of 2015?

- A. \$201 million
- B. \$627 million
- C. \$703 million
- D. \$1.91 billion

5. Examine the graph titled “Where investments went” on page A11. The deals listed were the 5 largest in the state. Based on the numbers from Venture Monitor, what was the average funding amount received for the deals not listed in the table?

- A. \$3.21 million
- B. \$3.38 million
- C. \$6.82 million
- D. \$57.2 million

Based on the article “In the shopping cart of a food stamp household: lots of soda” on page A2 of the Saturday, January 14th, Seattle Times.

6. A new study was released by the USDA on the buying patterns of U.S. households. The study included 26 million households and included households that participated in the Supplemental Nutrition Assistance Program. The study included 3 million households which received SNAP benefits. Those households spent a total of \$6.7 billion on SNAP-eligible foods. Households not receiving SNAP benefits spend a total of \$6,600 each year on food, including \$2,665 on prepared food eaten outside the home. On average how much more did the Non-SNAP households spend each on food to be eaten at home each year?

- A. \$442 more
- B. \$1,712 more
- C. \$1,921 more
- D. \$2,223 more

7. There are 23 million households that participate in the SNAP program and the average household participating receives \$256 in benefits each month. The whole program costs \$74 billion to fund. What percentage of the SNAP programs funding goes to administering the program and not to direct benefits?

- A. 4.5%
- B. 6.7%
- C. 8.0%
- D. 95.5%

8. Both SNAP and non-SNAP households spend almost a fifth of their food budgets on animal proteins: meat, poultry and seafood, but those purchases are broken up into three categories, leaving soft drinks as the largest spending category for each group. SNAP households spent 9.25% of their food budget on soft drinks while non-SNAP households spent 7.10%. How much more did the non-SNAP households spend on soft drinks each month?

- A. \$3.98 more
- B. \$6.15 more
- C. \$7.05 more
- D. \$73.16 more

Based on the article “BALLOT MEASURE” on page C1 of the Sunday, January 15th, Seattle Times.

9. Edgar Martinez remains on the ballots to get into the Hall of Fame. Each year sports writers can nominate up to 10 players to join the Hall of Fame and any player appearing on 75% or more of the ballots will get in. This year there are 435 sports writers who have votes, and of the 200 ballots that have already been made public, Martinez’s name appears on 134 of them. What percentage of the remaining ballots will his name have to be on in order to get into the Hall of Fame this year?

- A. 80.4%
- B. 81.5%
- C. 82.1%
- D. 83.0%

10. Martinez and his supporters don't expect him to make it into the Hall this year but hope that a strong showing this year, with his name appearing on most of the ballots, will help propel him into the Hall in the next couple years. If Martinez ends up on half the remaining ballots this year, what percentage of those who did not vote for him would need to change their minds next year for him to enter the Hall of Fame on the 2018 ballot?

- A. 41%
- B. 50%
- C. 62%
- D. 75%

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