

Sum up the News – September 21st, 2015

Vocabulary

1. The graph of a line on the coordinate plane has a slope of 0.75 and the line passes through the point (0, 6). Which of the following points will be the x-intercept of the line?

- A. (-8, 0)
- B. (-4.5, 0)
- C. (4.5, 0)
- D. (6, 0)

2. The variable x is some real number between -1 and 0. Which of the following expressions will have the largest value?

- A. $-2x$
- B. $-x$
- C. $2x$
- D. $2x^2$

3. Lines FG and HJ intersect at point M , producing 4 angles. The sum of the measures of angle FMJ and angle GMH is 190° . What is the measure of angle FMH ?

- A. 57°
- B. 85°
- C. 95°
- D. 170°

Based on the article "THE BIGGEST BOOM" on page A1 of the Monday, September 14th, Seattle Times.

4. Since 2010, Seattle's population has grown dramatically each year, averaging an increase of 14,511 people each of the four years. In 2012 alone the city's population grew by 18,000, enough to make it the fastest growing large city in the country. What was the average population gain in Seattle for the other years?

- A. 8,917
- B. 10,011
- C. 12,568
- D. 13,348

5. Examine the graph titled "Average annual population gain in Seattle by decade" on page A1. What was Seattle's population by the end of the year 2000?

- A. 535,000
- B. 565,000
- C. 580,000
- D. 595,000

6. Examine the graph titled "Population in Seattle by decade" on page A1. What was the approximate average annual growth in population for the city of Seattle in the 20th century?

- A. 4800
- B. 5100
- C. 5400
- D. 5700

7. Examine the graph titled “Average annual population gain in Seattle by decade” on page A1. If Seattle’s population growth continues through the decade at an average annual rate equal to the average rate since 2001, in which year would the city’s population exceed 700,000?

- A. 2017
- B. 2018
- C. 2019
- D. 2020

Based on the article “Longer kicks for extra points create suspense” on page C3 of the Wednesday, September 16th, Seattle Times.

8. Across the NFL, kickers have missed an average of 10.2 extra points over the past 10 seasons. They have made 99.146% of all their attempts. What is the average number of attempted extra points per year over the past 10 years?

- A. 1181
- B. 1194
- C. 1204
- D. 1230

9. Last year, when extra points were kicked from the 2-yard line, the league attempted 1,230 extra points and made 1,222 of them. The number of attempts was 3% higher than the 10-year average. During the pre-season this year, with extra points moved back to the 15-yard line, kickers missed 4 of their 75 attempts. If extra points last year had been moved back to the 15-yard line, and kickers had made them at a rate similar to the success rate of kickers this preseason, how many fewer extra points would have been made last year?

- A. 1118
- B. 1130
- C. 1164
- D. 1181

10. Last season, kickers attempted 304 field goals from between 30 and 39 yards out and they missed 30 of them. If they had made extra points last season at the percentage as they had made field goals from a distance of 30-39 yards, how many fewer extra points would have been made?

- A. 22
- B. 113
- C. 121
- D. 129

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