

## Sum up the News – February 22<sup>nd</sup>, 2016

### Vocabulary

1. The geometric mean of two numbers is equal to the square root of their product. What is the geometric mean of  $2x^2$  and  $8x^6$ ?

- A.  $4x^3$
- B.  $4x^4$
- C.  $5x^4$
- D.  $5x^6$

2. If  $x^2 \leq 25$  and  $y^2 \leq 16$ , then what is the minimum possible value of  $x * y$ ?

- A. -20
- B. 0
- C. 4
- D. 5

3. A line secant to circle M intersects it at points F and G. If the minor arc  $\widehat{FG}$  is half the measure of the major arc  $\widehat{FG}$ , what is the measure of angle  $\angle FGM$ ?

- A.  $30^\circ$
- B.  $45^\circ$
- C.  $60^\circ$
- D.  $120^\circ$

**Based on the article “Teens delay licenses and their driving is worse” on page A1 of the Tuesday, February 16<sup>th</sup>, Seattle Times.**

4. In the survey, 44% of the respondents listed not having a car as the reason they didn't yet have a license, 39% listed that they could travel easily without a car and 36% listed that driving was too expensive. If 18% said both that they did not have a car and that they thought that

driving was too expensive then what percentage of the respondents to the survey listed neither not having a car nor that driving was too expensive as reasons for not getting their licenses?

- A. 20%
- B. 35%
- C. 38%
- D. 62%

5. While driving instruction classes are being offered by most public high schools in Washington, the Legislature stopped subsidizing the program and now 88% of driving students take private classes, which cost \$500. For those students taking the classes through public school, the costs are typically  $\frac{3}{5}$ ths as much. If 40% of new drivers never take driving classes, what is the average amount that new drivers pay for driving instruction?

- A. \$260
- B. \$290
- C. \$330
- D. \$480

6. Examine the graph titled "More traffic tickets for drivers who waited" on page A1. How many more citations are drivers that start driving at 18 likely to receive in the two years after they start than drivers who start driving at 17?

- A. 31% more
- B. 59% more
- C. 70% more
- D. 170% more

7. Examine the graph titled "More traffic tickets for drivers who waited" on page A1. If for those drivers who waited until at least 18 to learn to drive, the rate of received citations continued to drop for each year they waited before getting their license, at what age would their citation rate match that of drivers who began driving at 16?

- A. 27

- B. 28
- C. 29
- D. 30

**Based on the article “SeaTac workers sue employers over wages” on page B1 of the Thursday, February 18<sup>th</sup>, Seattle Times.**

8. A group of workers have filed suit against a number of businesses in SeaTac, claiming that they are owed back pay due to their employers ignoring the new minimum wage law. Most of the workers filing suit had been paid just \$12 per hour, even though the \$15 per hour minimum wage went into effect on January 1<sup>st</sup> of 2014. If the workers are working 40-hour weeks, approximately how much in back wages were they owed by the end of 2015?

- A. \$6,200
- B. \$12,000
- C. \$24,000
- D. \$50,000

9. The lawsuit against the companies is starting with just 40 workers, but could expand to include 1,500 workers and the total pay owed could be as high as \$21 million. If U.S. labor law further allows employees to sue for additional money in damages equal to the unpaid back wages then what is the average amount that these employee could sue for, counting both the unpaid wages and the damages?

- A. \$12,000
- B. \$14,000
- C. \$24,000
- D. \$28,000

**Based on the article “UW is lax on reporting results of clinical trials” on page B1 of the Thursday, February 18<sup>th</sup>, Seattle Times.**

10. Medical centers doing research across the country have a poor record of releasing the results of all the studies they do. The University of Washington has released only 55% of the 141 studies it has performed. The Oregon Health and Science University has done somewhat

better in this regard, releasing 69% of its 73 studies. How many more studies have yet to be publicly released by the UW than are as yet unreleased by OHSU?

- A. 40 more studies
- B. 53 more studies
- C. 63 more studies
- D. 68 more studies

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