Sum up the News – March 14ᵗʰ, 2016

Vocabulary

1. The relationship between two variables, X and Y, is graphed on the coordinate plane. The graph will represent a function as long as _____.

      A. each coordinate pair has a unique dependent variable

      B. each coordinate pair has a unique independent variable

      C. X and Y are either both positive or both negative

      D. neither X nor Y is ever 0.

2. If lines $\overline{KL}$ and $\overline{MN}$ are parallel and $\overline{KM}$ and $\overline{LN}$ intersect at point J, then triangles KJL and triangle MJL will be _____.

      A. congruent

      B. equivalent

      C. identical

      D. similar

3. The two longer altitudes of a right triangle measure 8 in. and 15 in. respectively. What is the measure of the third altitude of the triangle?

      A. 6.94 in.

      B. 7.06 in.

      C. 7.58 in.

      D. 9.07 in.

Based on the article "Sunday climb: 1,356 steps, 11 minutes, 35 lbs. of gear" on page B1 of the Monday, March 7ᵗʰ, Seattle Times.

4. The annual firefighter stair-climb was won by Andy Drobeck, who climbed the 1,356 steps in 10 minutes 43 seconds. Seattle's fire chief climbed the stairs in 29 minutes. On average how many more steps did Drobeck climb each minute than did Seattle's fire chief?

      A. 72 steps per minute more

      B. 80 steps per minute more

      C. 83 steps per minute more

D. 127 steps per minute more

5. The building where the climb was located has 69 floors, but the first three floors are twice as tall as the others and thus have twice as many steps. What is the average number of steps that each of the first three floors have?

A. 18.3 steps

B. 24 steps

C. 37.7 steps

D. 52 steps

6. Most of the firefighters participating in the climb pause at the 40th floor to change out their air tank. The tanks should hold 45 minutes of air, but racing up the steps leads the firefighters to consume the air much more quickly. How many steps do most racers climb before changing their air tank?

A. 678 steps

B. 704 steps

C. 733 steps

D. 788 steps

Based on the article "e-book market turns page on sales patterns" on page A12 of the Thursday, March 10th, Seattle Times.

7. Examine the graph titled "Digital stagnation" on page A12. eBooks had only 22% of the market for books in 2015. Total eBook sales decreased by 11% from 2014 to 2015. By how much did the total market for books change from 2014 to 2015?

A. The total market for books decreased by 3%.

B. The total market for books increased by 1%.

C. The total market for books increased by 5%.

D. The total market for books increased by 8%.

8. Examine the graph titled "Digital stagnation" on page A12. eBooks' share of the market had continued to increase at the average rate from 2010 to 2013, at what level would they be by the end of 2016?

A. 48% market share

B. 52% market share

C. 55% market share

D. 60% market share

Based on the article "Innovation gives rise to affordable housing" on page D1 of the Sunday, March 13th, Seattle Times.

9.   One of the newer apartments designed to serve middle income renters is renting at $1,545 per month, $750 less than similar places on the market. The apartment is 847 sq. ft. How much less is the monthly rental cost per sq. ft. than at similar apartments?

    A. $0.73 less per sq. ft.

    B. $0.89 less per sq. ft.

    C. $0.94 less per sq. ft.

    D. $1.03 less per sq. ft.

10.   Housing which cost more than 30% of a person income is considered unaffordable, For those Seattle renters earning between $30,000 and $45,000 per year, two-thirds of them spent 30% of more of their income on housing, while for those Seattle renters who earned more than $45,000 just one renter in six were spending more than 30% of their income on rent. How much more likely is a renter earning $60,000 per year to have affordable housing, than someone earning $40,000?

    A. 1.5 times more likely

    B. 2 times more likely

    C. 2.5 times more likely

    D. 3 times more likely

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