Sum up the News – September 7th, 2015

Vocabulary

1. Two terms can only be combined together using subtraction if _____.

    A. they have the same coefficients

    B. they have the same variables

    C. they have both the same coefficients and variables

    D. they have both the same variables raised to the same power

2. If two binomial expressions, Ax + B and Cx + D, are multiplied together, how many distinct terms will there be in the expanded and simplified product if all of the coefficients and constants are positive?

    A. 1

    B. 2

    C. 3

    D. 4

3. Five points in space define five distinct lines. How many of the points are collinear?

    A. 2

    B. 3

    C. 4

    D. 5

Based on the article "Ship Canal bridges" on page A1 of the Wednesday, September 2nd, Seattle Times.

4.   Examine the graph titled "Seattle's busy Ship Canal bridges" on page A9. The Fremont Bridge opened 655 times this June, roughly 22 times per day, numbers significantly higher than its average June numbers from the past four years. Based on the graph how much above the average from the past four years was this June's number of daily openings?

    A. 55%

    B. 65%

    C. 75%

    D. 85%

5. If the Fremont Bridge experienced a similar percentage increase over its recent historical average this July, how many openings per day was it averaging during the month?

    A.26

    B. 28

    C. 30

    D. 32

6. In the last week of August this year, during the early morning weekday commute from 6am to 7am, the Ballard bridge opened a total of 11 times. The average time the stays open is 4.8 minutes. During that week of August, what percentage of the time was the bridge open during the morning hours of 6am to 7am?

    A. 12.6%

    B. 17.6%

    C. 26.2%

    D. 31.2%

Based on the article "Goal to get consumers to warm up to frozen food" on page A10 of the Wednesday, September 2nd, Seattle Times.

7. Examine the graph titled "Frozen out" on page A11. If total sales of frozen food have increased by an average annual percentage of 1% over the past four years. Given the decline in the units of frozen food sold as seen on the graph, how has the average price of frozen food changed in the past four years?

    A. Prices have decreased by 4%

    B. Prices have increased by 4%

    C. Prices have increased by 8%

    D. Prices have increased by 12%

8. Examine the graph titled "Frozen out" on page A11. By how much have unit sales of frozen entrees decreased by since 2012?

        A. 7.9%

        B. 10.8%

        C. 11.8%

        D. 12.4%

Based on the article "Collar that checks pets' vital signs" on page A8 of the Thursday, September 3rd, Seattle Times.

9. PetPace collars cost $150, while Voyce collars cost $200. PetPace does charge more each month, however: $15 per month compared to Voyce's $9.95 monthly charge. After how many weeks will the total cost for the PetPace collar exceed the costs of the Voyce collar?

        A. 4 months

        B. 8 months

        C. 10 months

        D. 20 months

10.   Jack is a dog using PetPace to monitor his epilepsy. The collar checks his vitals every 2 minutes and separately every 15 minutes. Because of this frequent monitoring schedule, the collar needs to be recharged every two days. How many times over two days are Jack's vitals checked??

        A. 221

        B. 816

        C. 1440

        D. 1632

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