Vocabulary

1. If two variables, F and G, are related in such a way that whenever G changes by 1 unit, F changes by a fixed amount, k, then the graph of the two variables, with J measured along the horizontal axis, would have a slope of _____.

> A. $1 - k$
>
> B. $1 / k$
>
> C. $k - 1$
>
> D. k

2. Two less than a number, n, is multiplied by itself, then multiplied by itself again. Which of the following expressions best represents the result?

> A. $3n - 6$
>
> B. $n^3 - 2$
>
> C. $n^3 - 8$
>
> D. $(n - 2)^3$

3. Three planes intersect each other to form three parallel lines. How many points do all three planes share?

> A. 0
>
> B. 1
>
> C. 2
>
> D. 3

Based on the article "NW's melting glaciers, in a word: 'DISASTROUS'" on page A1 of the Tuesday, September 8ᵗʰ, Seattle Times.

4. Glaciers across the Northwest have lost 25% to 40% of their mass from 1985 through last year. By the end of this summer they are expected to lose another 5% to 10%. After this summer, what is the maximum percentage that glaciers in the Northwest will have decreased since 1985?

        A. 29%

        B. 46%

        C. 54%

        D. 71%

5. By the end of last year, some Northwest glaciers had 40% of their mass since 1985. For those glaciers, what was the average annual percentage decrease of their mass each year?

        A. 1.3%

        B. 2.5%

        C. 3.1%

        D. 4.8%

6. Climate scientists are worried that losing 5% to 10% each year may become normal. If the glaciers lose 7.5% of their mass each year for the next 20 years, what percentage of their 2015 mass will they have lost?

        A. 21%

        B. 24%

        C. 76%

        D. 79%

7. Examine the graph titled "Glaciers take a step dive" on page A5. Globally, glaciers started losing mass at an accelerated rate after the year 200. What is the approximate slope of the glacial mass balance for global glaciers from 2000 through 2014?

A. y = -0.71x – 6.0

B. y = -0.71x - 10

C. y = -0.55x

D. y = -0.97x – 3.8

Based on the article "Urgent survival lesson throws parents, charter schools into fundraising, politics" on page A1 of the Wednesday, September 9th, Seattle Times.

8. Following the State Supreme Court ruling, the Charter Schools Association needs $14 million to keep their nine schools open for the next nine months. There are 1,200 students enrolled in the nine schools. If it takes approximately $1,180 per month per student of state money for Washington's public schools, about how much more is spent on students at charter schools each month?

A. $720 more per student

B. $1,050 more per student

C. $1,540 more per student

D. $11,700 more per student

9. The Excel Public Charter School currently has 160 students enrolled. What is the mean enrollment of the other eight charter schools in the state?

A. 116

B. 130

C. 133

D. 150

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