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QUESTION 1

The line $y = mx + 5$ is parallel to another line that contains the points $(3, -2)$ and $(5, 7)$. The value for m is _____.

- A. $\frac{9}{8}$
- B. $\frac{8}{9}$
- C. $-\frac{9}{8}$
- D. $\frac{8}{-9}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 2**FILL BLANK**

The basketball team sold t-shirts and hats as a fund-raiser. They sold a total of 23 items and made a profit of \$246. They made a profit of \$10 for every t-shirt they sold and \$12 for every hat they sold.

Determine the number of t-shirts and the number of hats the basketball team sold.

Enter the number of t-shirts in the Part A.

Enter the number of hats in the Part B.

A.

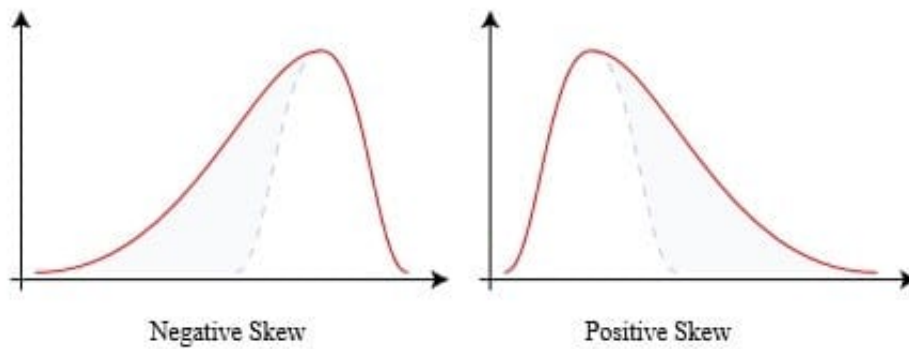
See explanation below.

Correct Answer: A

Part A: 15 Part B: 8

QUESTION 3

For the distributions shown in the attached image, which will be the better measure of the center of the data set?



- A. mean or median
- B. median or mode
- C. mean only
- D. mode only

Correct Answer: B

QUESTION 4

FILL BLANK

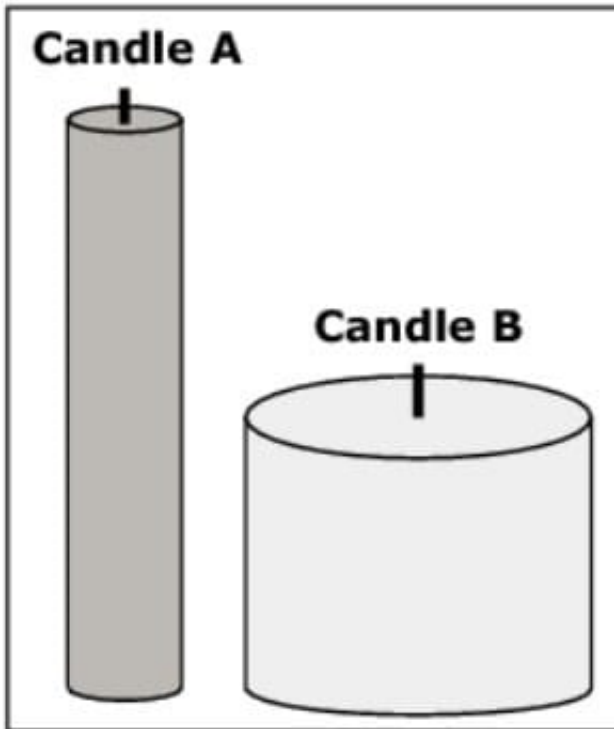
Case study

Lights, Candles, Action!

Your friend Abbie is making a movie. She is filming a fancy dinner scene and she has two types of candles on the table. She wants to determine how long the candles will last.

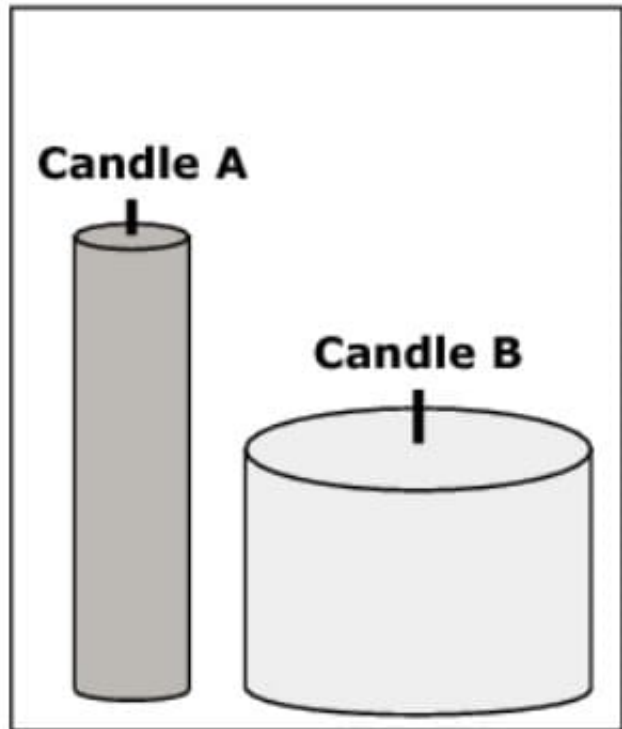
She takes a picture, lights the candles, and then lets them burn for 1 hour. She then takes a second picture. You can assume that each candle burns at its own constant rate.

First Picture:



Time = 0 hrs

Second Picture:



Time = 1 hr

Candle Type A initial height = 20 cm

Candle Type B initial height = 10 cm Candle Type A height after burning for 1 hour = 16 cm Candle Type B height after burning for 1 hour = 9 cm

You will use this information to help Abbie think about the candles she might use for her film.

Abbie has 3 hours left to film. She lights a new Candle Type A and Candle Type B and then starts filming.

In the 3 hours she has left, will Abbie capture the moment when the candles are exactly the same height?

Explain to Abbie how you can determine the answer.

A.

See explanation below.

Correct Answer: A

Sample response a $1(-4) = -4$ $1(-1) = -1$ No, Abbie will not see the 2 candles at the same height during

$2(-4) = -8$ $2(-1) = -2$ the 3 hours that she is filming. $3(-4) = -12$ $3(-1) = -3$ $20 - 4 = 16$ $10 - 1 = 9$

$20 - 8 = 12$ $10 - 2 = 8$

$20 - 12 = 8$ $10 - 3 = 7$

Score point 1:

This response is "almost a 2." In order to move from a score of 1 to a score of 2, this student would need to be more explicit about the meaning of the numbers and calculations, and ultimately connect those to the context.

Sample response b

She will not have enough time to capture both candles having the same height. After 3 hours candle A will be at 8 cm and candle B will be a 6 cm.

Score point 1:

The student correctly states No, but does not provide a mathematically valid argument and makes a mistake in the calculation of the height of Candle Type B.

Sample response c

No b/c at 3 hours candle A is 8 cm and B is 7 hours. She would only be able to if she was filming for 4 hours.

Score point 1:

The student correctly states No, but does not provide a mathematically valid argument.

Sample response d

I don't know if they will be equal because candle b is burning out faster then candle a. She might be able to capture them burning but not at the same height.

Score point 0:

Student does not state a definitive answer and does not provide a mathematical justification.

QUESTION 5

Sarah took 8 tests in her history class. Her highest score was 94 and her lowest score was 82.

On the 9th test of the semester, she got a 96.

Using this information, how did her mean score change when the last test was included?

- A. It was unchanged
- B. It cannot be determined from the given information
- C. It increased.
- D. It decreased.

Correct Answer: C