# SBAC^Q&As

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**QUESTION 1**

FILL BLANK

Emily has a gift certificate for $10 to use at an online store. She can purchase songs for 1$ each or episodes of TV shows for 3$ each. She wants to spend exactly $10.

Part A

Create an equation to show the relationship between the number of songs, x, Emily can purchase and the number of episodes of TV shows, y, she can purchase.

Part B

Use the Add Point tool to plot all possible combinations of songs and TV shows Emily can purchase.



A.

See explanation below.

Correct Answer: A

## Part A

$$1\,x + 3\,y = 10$$

```
0    0    0
1    1    1
2    2    2
3    3    3
4    4    4
5    5    5
6    6    6
7    7    7
8    8    8
9    9    9
10   10   10
```

## Part B

### Emily's Online Spending
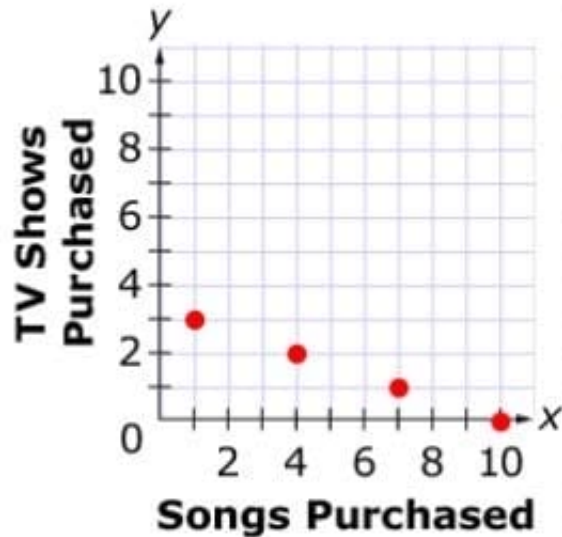


(2 points) The student creates the equation 1x + 3y = 10 (or equivalent) and plots only the points (10,0), (7,1), (4, 2), and (1, 3). (1 point) The student creates the equation 1x + 3y = 10 (or equivalent) OR plots only the points (10, 0), (7, 1), (4, 2), and (1, 3).

Note: The student may leave the response box in front of the x blank as an assumed 1.

**QUESTION 2**
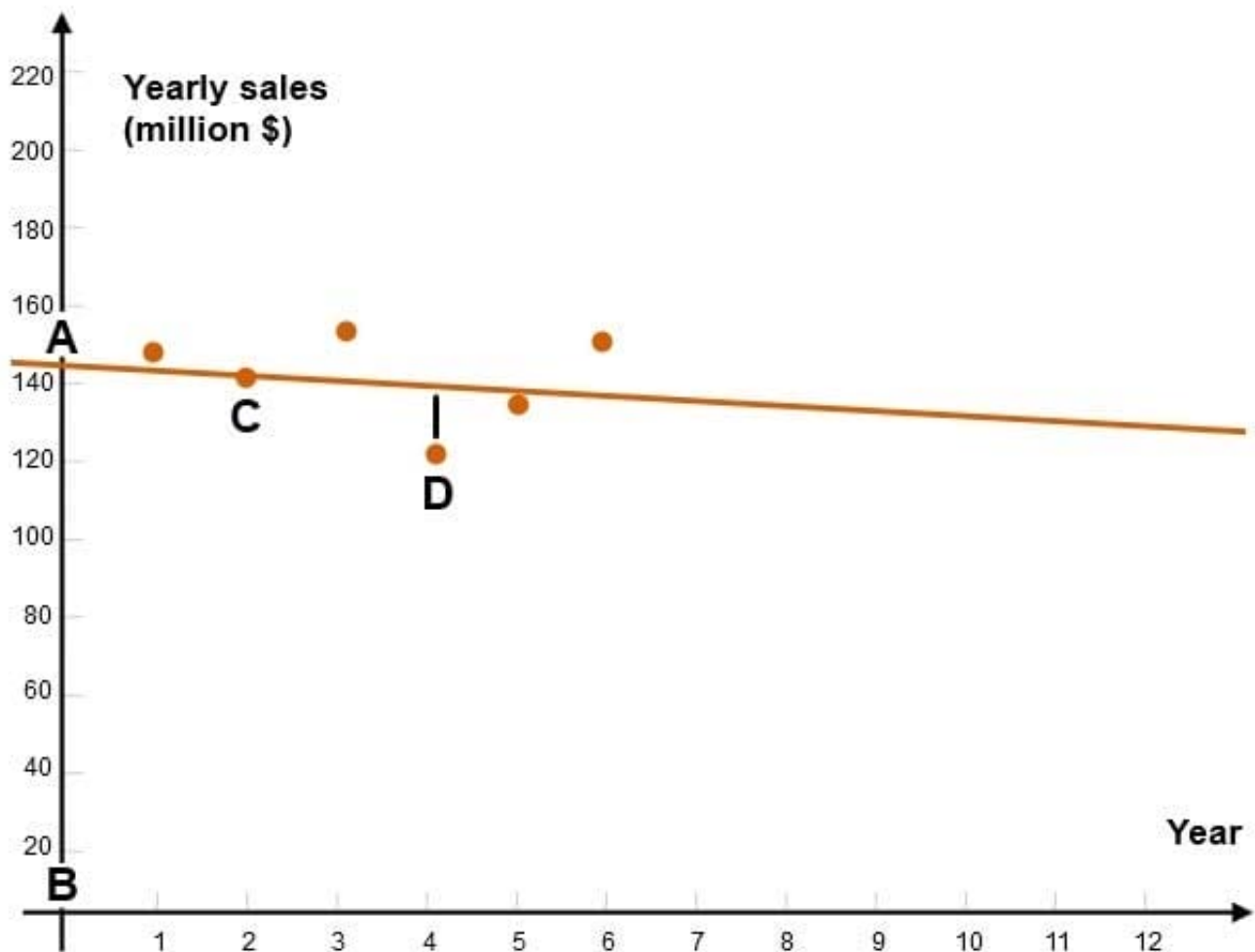
Students in a business class are studying the performance of XYZ Widgets over the past 6 years. This is a scatterplot of yearly sales and a linear model trend line of the data. Several students are predicting the performance of the company in year 7. Which of these is not a reasonable interpretation of the attached model?

A. They are showing steady growth after the problem year and so they should make about 150 million dollars.

B. The result 3 years ago is unusual for this company. Except for that year, they have been making about 140 million dollars each year and so that is what they will make next year.

C. The trend is slightly negative, so they will make about 138 million dollars.

D. Next year they will make 180 million dollars. They already had a really bad year and so they are due for a really good year.

Correct Answer: D

QUESTION 3

The graph of f(x) = (x - 2) (x2 - 3x - 10) will ____.

a ) cross the x-axis at three points b ) approach two vertical asymptotes c ) have a zero at x = ?5 d ) increase without bound in the first quadrant e ) decrease without bound in the fourth quadrant

A. a, b

B. b, c, d

C. c, e

D. a, d

Correct Answer: D

## 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.
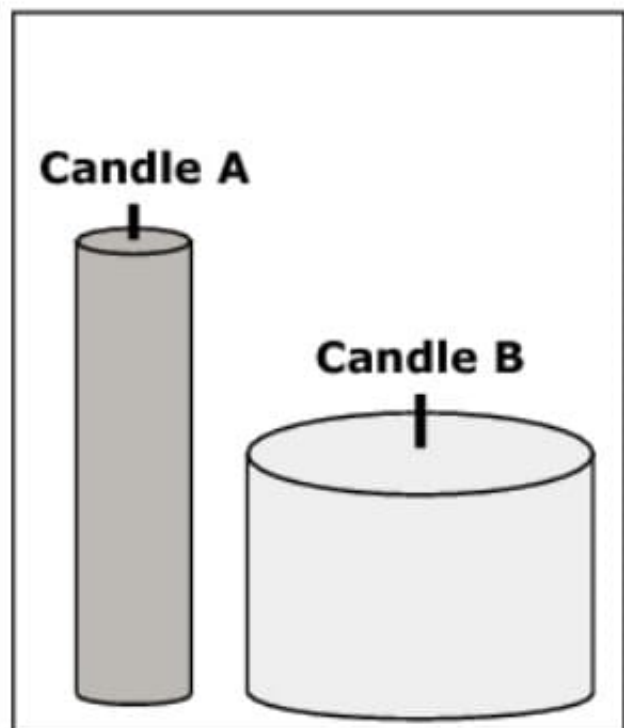
She takes a picture, lights the candles, and then lets them burn for 1 hour. She then takes a second picture. You can assume that each candle burns at its won constant rate.
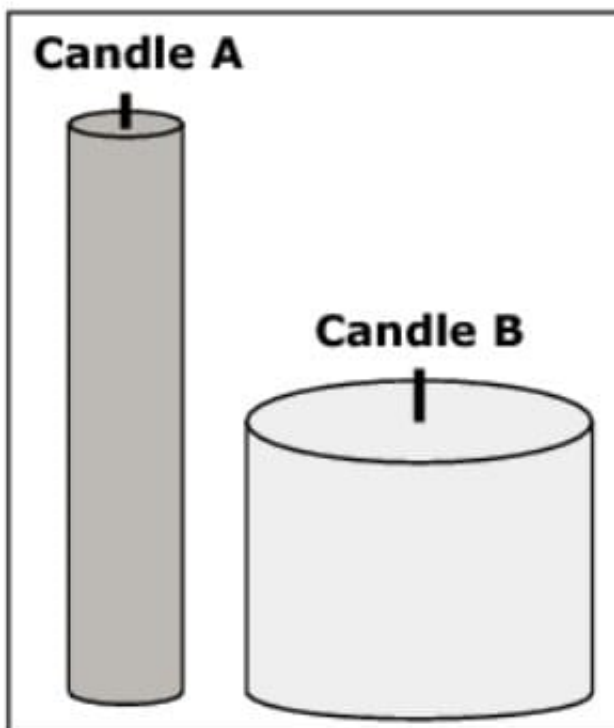
Candle Type A initial height = 20 cm

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

For her next film, Abbie wants candles that will burn for exactly 8 hours. You want to give her a choice by designing two different candles (Type C and Type D).

Using the equation $h = k + nt$, determine two different pairs of values for k and n that will meet the requirement to burn down to a height of 0 cm in exactly 8 hours.

Complete the table to show two possible sets of values for k and n for your new candle designs.

|  | k | n |
|---|---|---|
| Candle Type C |  |  |
| Candle Type D |  |  |

A.

See explanation below.

Correct Answer: A

2 points: The student creates values for k and n that result in Candle Type C and Candle Type D burning out in 8 hours.

1 point: The student creates values for k and n that result in Candle Type C or Candle Type D burning out in 8 hours.

0 points: All other responses.

Sample full-credit responses:

|  | k | n |
|---|---|---|
| Candle Type C | 16 | -2 |
| Candle Type D | 8 | -1 |

|  | k | n |
|---|---|---|
| Candle Type C | 12 | -1.5 |
| Candle Type D | 24 | -3 |

**QUESTION 5**

A student is writing a research report on the Civil War. Here is a draft of that report.

The American Civil War erupted after years of tension between the North and the South. Differing views on westward expansion, states\' rights, and possibly most notably slavery, Abraham Lincoln\'s win in the 1860 presidential election was the trigger that sparked the war. Eleven states announced their secession from the Union and the Confederate States of America was born.

As the southern states banded together to fight for their rights against a president and government they feared was trying to abolish their way of life and ruin their economy, the Civil War pitted brother against brother in some cases. Those who supported the abolition of slavery supported the northern Union army. Those who saw value in slavery fought for the Confederate south. As shots were fired at Fort Sumter on April 12, 1861, the deadliest war for American soldiers was officially underway.

The fighting would last another four years. Each side celebrated victories and suffered defeats during that time, but the North ultimately won. On April 9, 1865, three days shy of four years after it began, the Civil War came to an end. General Robert E. Lee surrendered to General Ulysses S. Grant at the Appomattox Court House in Appomattox County, Virginia.

Read the attached essay draft and answer this question about it. Which three of the following sentences provide the best evidence to support the main idea of the paper?

1.

 It has been estimated that 620,000 American soldiers died in the Civil War.

2.

 The period following the Civil War is known as the Reconstruction Era when much of the South was rebuilt and the southern states were readmitted back to the United States.

3.

The Battle of Gettysburg is one of the most well-known Civil War battles.

4.

Also known as "The War Between the States," the Civil War divided the nation over very fiery topics: the idea of central power and a federal government mandating state\\'s rights and the issue of slavery.

5.

The North was better equipped and had more men to fight than the South.

A. sentences 1, 4, and 5

B. sentences 1, 2, and 3

C. sentences 2, 3, and 5

D. sentences 3, 4, and 5

Correct Answer: A

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