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QUESTION 1

DRAG DROP

Cheryl claims that any irrational number squared will result in a rational number.

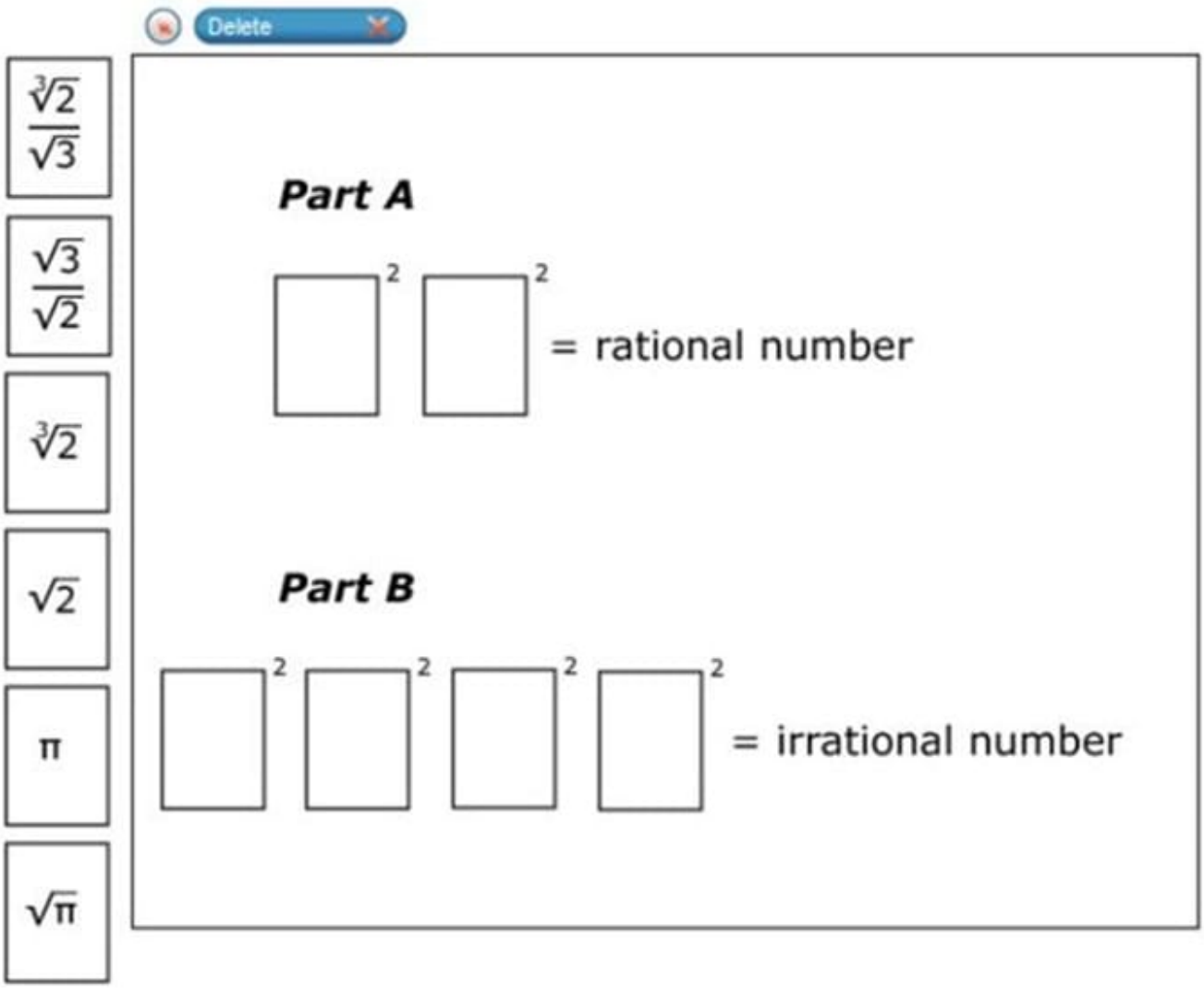
Part A

Drag an irrational number into the first response box that when squared will result in a rational number.

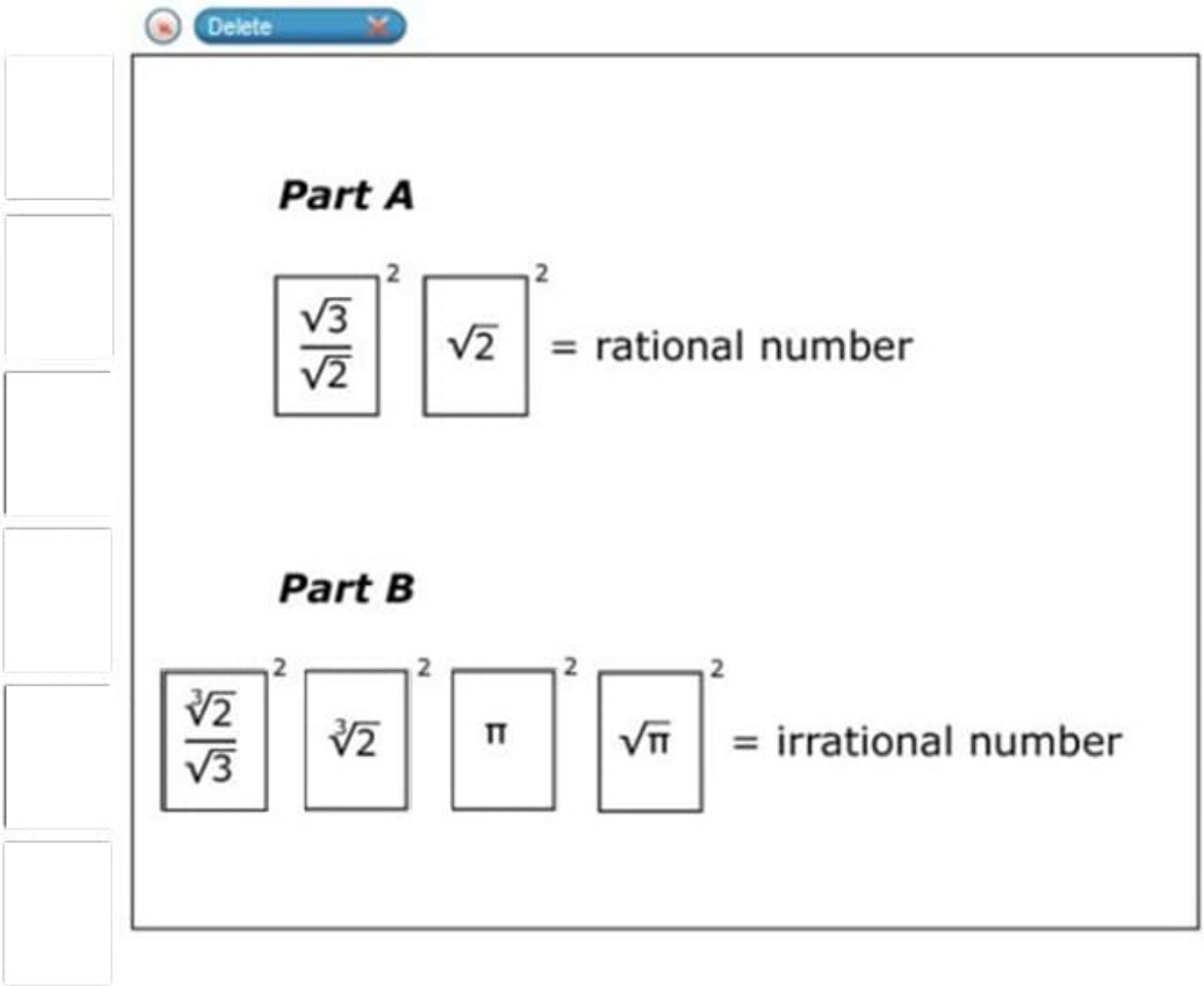
Part B

Drag an irrational number into the second response box that when squared will result in an irrational number.

Select and Place:



Correct Answer:



QUESTION 2

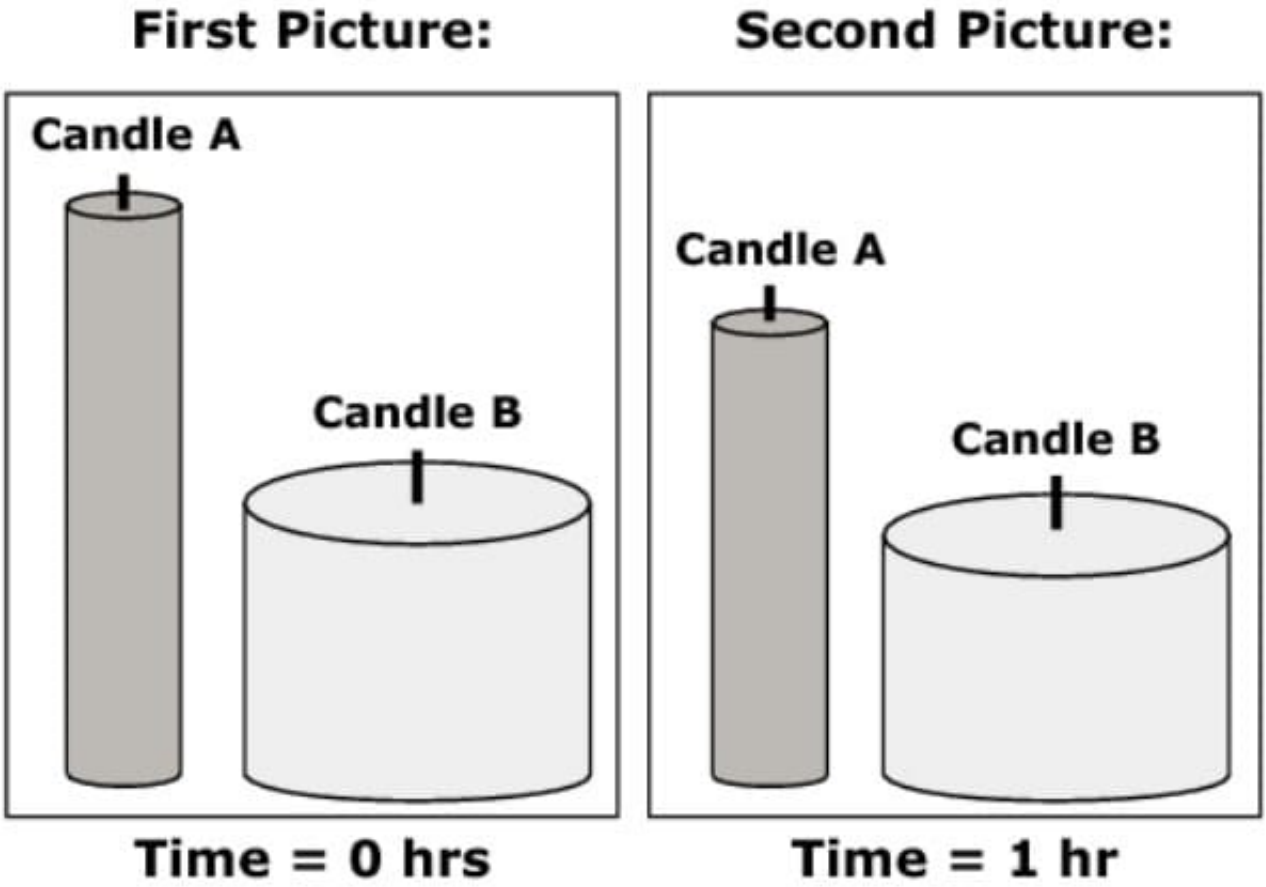
FILL BLANK

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 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.

You have decided to use functions to help Abbie think about the candles.

You show her how to represent the height of a candle, h, as a function of time, t, using this equation:

h = k+ nt

First, explain to Abbie what k and n represent in order to model the different candles. Be specific in your explanation.

A.

See explanation below.

Correct Answer: A

2 points: The student correctly identifies that "k" represents the initial height of the candle and "n" represents the burn rate of the candle.

1 point: The student is only able to correctly identify one of the parameters, not both.

0 points: All other responses

Note: It is necessary for the student to identify "k" as the initial or original height in order to receive full credit, because the height of the candle changes as it burns and it is represented by "h" in the equation.

QUESTION 3

Which of these is equivalent to y = x2 + 8x - 3?

A. $y = (x + 4)^2 - 19$
B. $y = (x + 4)^2 + 13$
C. $y = (x + 4)^2 + 63$
D. $y = (x + 8)^2 - 69$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

QUESTION 4

The tip of a wall clock\\'s minute hand measures 2.0 m from the floor at 10:00. At 10:30 it measures 1.7 m from the floor. If the motion of the minute hand is modeled as a cosine graph over a time of several hours, what would be the period and amplitude of the graph?

A. Period = 45 min Amplitude = 2.0 m

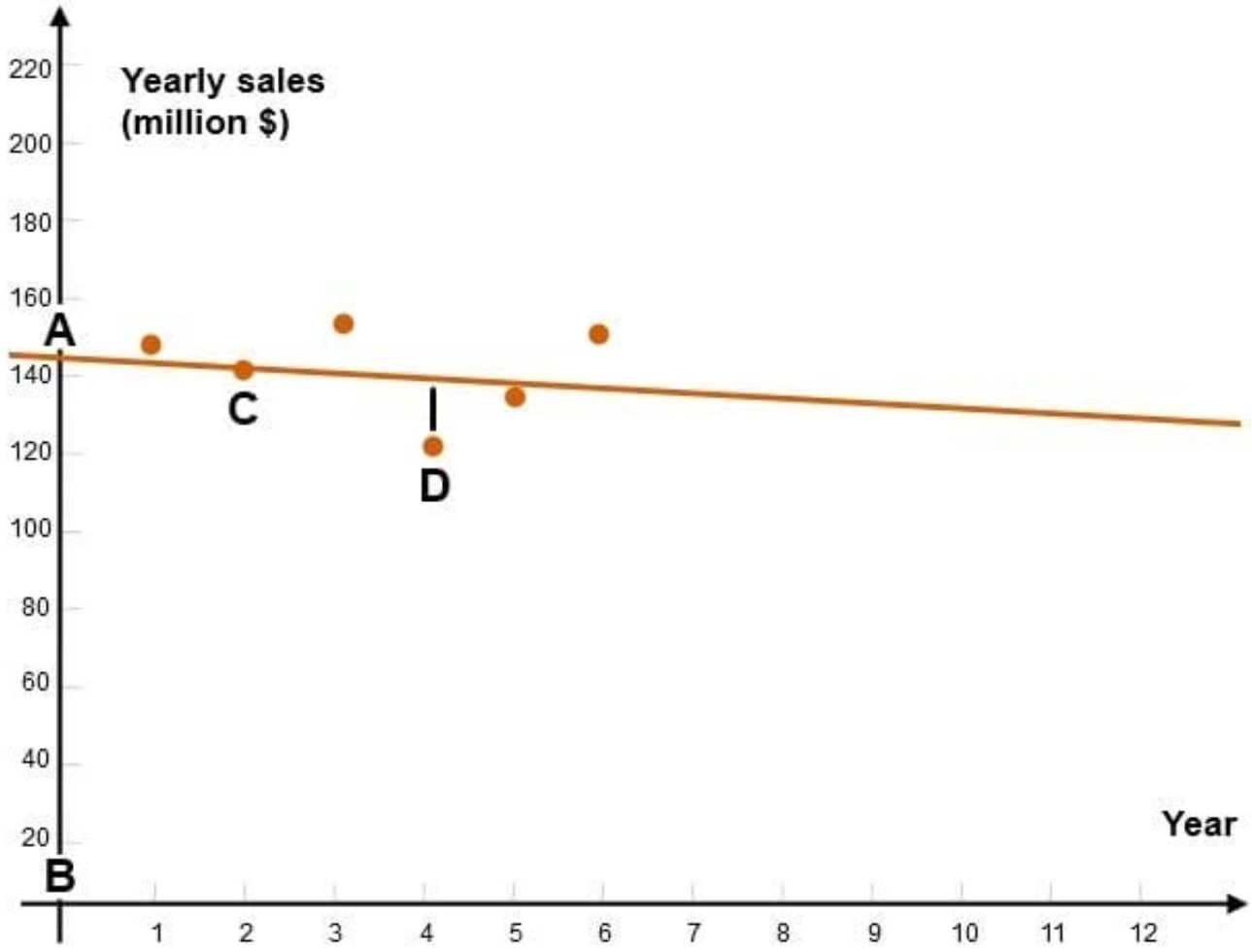
B. Period = 30 min Amplitude = 0.30 m

C. Period = 60 min Amplitude = 0.15 m

D. Period = 15 min Amplitude = 0.15 m

Correct Answer: C

QUESTION 5



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

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