Module 2

(P) 35:00

Section 2, Module 2: Math

(B) Annotate

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Mark for Review □

What is 18% of 400?

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Mark for Review 🗌

x - 2y = 11

2y = 15

The solution for the given system of equations is (x, y). What is xy?

(A) 15

(B) 97.5

(c) 150

 $\stackrel{\text{(c)}}{}$

(D)

(D) 195

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Ben is planning to print $110\,\mathrm{pages}$ of documents at a print shop. c pages should be printed in color, and the rest should be printed in gray-scale. The print shop charges 1.5 dollars for printing a colored page, and $0.5\,\text{dollars}$ for printing a gray-scale page. Which expression best describes the total price of Ben's printing in dollars?

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(A) 1.5c + 0.5(110 - c)



(B) 1.5c - 0.5(110 + c)



(c) $0.5c + 1.5(1\overline{10-c})$



 $\bigcirc 0.5c + 1.5(110 + c)$

 $\overline{\mathfrak{o}}$

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Section 2, Module 2: Math

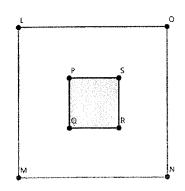
(D)

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A square-bottomed monument is surrounded by a square-shaped plaza with a three times longer side length. The area of the plaza excluding the bottom of the monument is 720 square feet. What is the area of the bottom of the monument in square feet?

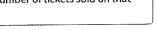


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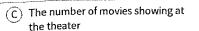
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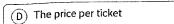
The daily revenue of a movie theater is directly proportional to \emph{t} , the number of tickets sold. If the theater's revenue on a certain day was 7.95tdollars, which of the choices best suggests the meaning of the number 7.95 in this context?

 $\widehat{(A)}$ The number of tickets sold on that



(B) The annual average revenue of the movie theater





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Annotate Section 2, Module 2: Math Section 2, Module 2: Math 9 Mark for Review ☐ 11 Mark for Review Each side of a fair 12-sided die has a unique integer A turtle spends 75% of its lifetime in the water. between -6 and 5. What is the probability of rolling If the turtle lived 80 years, how many years did it Ш a positive integer when the die is rolled once? spend in the water? \bigcirc A) $\frac{1}{12}$ $\overline{(A)}$ (A) 20 (A) $\bigcirc{B} \quad \frac{2}{12}$ (B) 60 $\bigcirc \frac{5}{12}$ (C) 75 III $\bigcirc D \quad \frac{6}{12}$ (D) D 80 TEST簡QUBE Question 9 of 22 > Question 11 of 22 > TEST锄QUBE IV Ø, Section 2, Module 2: Math Section 2, Module 2: Math 10 12 Mark for Review Mark for Review [٧ The speed of a broken probe satellite , S(x) , is 10% $y^2 = xy$ faster every day after the breakage. If \boldsymbol{x} represents If (x = b, y = 11) is one of the solutions for the the days past the date of the breakage, which given equation, what is the value of b? choice best models S(x) if the speed of the satellite was initially 1,500 km/h? \widehat{A} S(x) = 1,500(1.1)x $\frac{A}{A}$ VI $\widehat{(B)}$ $S(x) = 1,500(1.1)^x$ $\frac{B}{B}$ (\bar{C}) $S(x) = 1,500x^{1.1}$ (c) (D) $S(x) = 1,500^{1.1}x$ (D) VII

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Section 2, Module 2: Math Section 2, Module 2: Math Mark for Review 🗍 14 Mark for Review [] 13 Annual Precipitation П 1800 1600 1400 1200 1000 800 600 400 200 The scatterplot is generated by analyzing a 0 2010 2011 2012 2013 2014 2015 2016 2017 2018 Ш company's total sales, in thousand products, and the net profit, in million dollars, for each fiscal year The chart shows the recorded annual precipitation over a nine-year period. A linear function y=f(x)of a certain city, in millimeters per year. From $2010\,$ models the data where $oldsymbol{x}$ and $oldsymbol{y}$ represent the sales to 2018, in which year did the city experience the and profit, respectively. Which of the following least amount of precipitation? descriptions of f(x) is true? 2012 $\frac{A}{A}$ $\widehat{\mbox{{\sc A}}}$ Both the slope and the y-intercept are positive. IV (B) 2014 (B) The slope is positive and the y-© 2016 intercept is negative. $\stackrel{\textstyle \frown}{\tiny (D)}\ 2018$ (D) (C) The slope is negative and the yintercept is positive. oxedown Both the slope and the y-intercept ٧ are negative. ۷I

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Section 2, Module 2: Math Mark for Review [18 $\begin{cases} y = x^2 + 2x + 1 \\ y = -4 \end{cases}$ П How many sets of real solutions does the given set of equations have? $\widehat{(A)}$ 0 (B) 1 Ш (c) 2 (D) (D) Infinitely many IV TEST®QUBE Question 18 of 22 > Section 2, Module 2: Math Mark for Review 🗍 19 ٧ 17 19 16 18 15 The given dot plot shows the distribution of test ۷I scores, out of 20, of 26 students in Hannah's class. What is the mode of the scores of Hannah's classmates?

(B) Section 2, Module 2: Math 20 Mark for Review 🗍 What is the value of $\sqrt{x^2+3}+3$ when x=-1?

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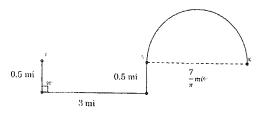


Section 2, Module 2: Math



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Mark for Review



Josh and Kimberly left their respective home at the same time for school S. From Josh's home, J, he drove 0.5 miles south, turned 90 degrees left, drove 3 miles, turned 90 degrees left, and drove 0.5 miles. From Kimberly's home, K, she drove along a semicircular road with a diameter of $\frac{7}{\pi}$ miles. Assuming that the average driving speeds of Josh and Kimberly are the same, who arrived at the school first?

(A) Josh



(B)

(D)

(B) Kimberly



(D) There is not enough information provided.

(C) Both arrived at the same time.

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Mark for Review 🗍

g(x) is defined as the largest possible integer that is less than or equal to x. A page of a certain academic paper contains 240 words at maximum. Which choice does the most appropriately represent the minimum number of pages of the academic paper that contains 1890 words?

(A) g(1890)

(B) g(240)





 \bigcirc $g(\frac{240}{1890}) + 1$





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