**(b)** 35:00

Section 2, Module 1: Math

... Annotate

 $\overline{\mathbb{A}}$ 

<del>(B)</del>

<del>(c)</del>

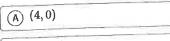
**(B)** 

Section 2, Module 1: Math

Mark for Review 🗌

Which of the following points represent the intersections of the function

 $f(x)=3x^2+36x+96$  with the x axis?



(B) (0, -4)

(c) (-8,0)(0,0)

3

Mark for Review

James created a unique shape by combining without overlapping three identical equilateral triangles. If each triangle has a side length of  $10\,$ centimeters, what is the closest total area of this special shape?



(B) 43.30 cm<sup>2</sup>

(C) 129.90 cm<sup>2</sup>

(D) 229.90 cm<sup>2</sup>

<del>(A)</del>-

€

(B)

<del>(D)</del>

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Mark for Review

Jimmy is booking a hotel which costs \$80 per night and a \$100 one-time fee. Considering Jimmy's budget of \$1200, what is the maximum number of days Jimmy can stay at the hotel?

(A) 12 (B) (B) 13 <del>(c)</del> © 14

<del>(D)</del> (D) 15

Section 2, Module 1: Math

4

Mark for Review 🗍

A bag contains 18 marbles, 13 of which are red and 5 of which are blue. Three marbles are drawn at random, without replacement. What is the probability that all three marbles are red?

(A) 1/18



(B) 143/408



(c) 13/126



(D) 1/4

<del>(D)</del>

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(B) 37

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Section 2, Module 1: Math 5 Mark for Review ☐ In a random selection of 230 voters, they were asked about their satisfaction with a policy. Out of these voters, 80 expressed dissatisfaction. If a total of 17,250 people were to vote for the policy, what is the best estimate of votes that indicate satisfaction with the policy? (A) 11250 (B) 6000 (C) 16470 (D) 8000 <del>(D)</del> TEST锁QUBE Question 5 of 22 > Section 2, Module 1: Math 6 Mark for Review □

Section 2, Module 1: Math

Mark for Review  $\square$ What is the product of the solutions for x in the given equation?  $x(x+8)=4x^2+45x+20$ 

In triangle ABC, the following information is given: Angle B measures 90 degrees, and Angle C measures 30 degrees. If the length of side AB is 20, what is the length of side AC?

Question 6 of 22 >

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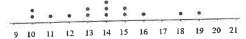
Section 2, Module 1: Math



Mark for Review

Based on the dot plot provided, which of the following descriptions best characterizes the distribution of data sets  $m{A}$  and  $m{B}$ ?

Data set A:



Data set B:

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 $oxed{(A)}$  Data set  $oldsymbol{A}$  has greater mean and standard deviation than Data set  $B_{
m c}$ 



 $oxed{(B)}$  Data set A has greater mean but lower standard deviation than Data set  ${\it B}$ .



 $oxed{(c)}$  Data set A has smaller mean but greater standard deviation than Data set B.



 $(\widehat{ extsf{D}})$  Data set A has smaller mean and  $\bigcirc$ standard deviation than Data set B.

9

Mark for Review □

The given function f(x)=(x+4)(x+3) is translated up by 3 units. At which y-coordinate does this graph intersect x=3?













**TEST@QUBE** 

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Section 2, Module 1: Math



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Mark for Review

If 2x + 4 = 12, what is the value of x + 9?

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Annotate Section 2, Module 1: Math Section 2, Module 1: Math 11 Mark for Review ☐ 12 Mark for Review 🗍 What is the y-intercept for the given graph below? Chris rides his bicycle at a constant speed of  $30\,\mathrm{feet}$ per minute. How long, in seconds, does it approximately take him to reach a point that is 70 feet away? (A) 125 (B) 130 (c) 140 (D) 160 <del>(D)</del> (A) 8 <del>(A)</del> (B) 7 TEST键QUBE Question 12 of 22 > (c) 1 (D) -1<del>(D)</del> Section 2, Module 1: Math 13 Mark for Review 🗍 The length of the garden is 20 meters, and it is 20%longer than its width. What is the approximate width of the garden in meters? (Round your answer to the nearest tenth.)

TEST铀QUBE

Section 2, Module 1: Math Section 2, Module 1: Math Mark for Review 16 Mark for Review 14 The scatter plot provided illustrates the relationship James boards a train leaving a station at  $10:00\,\mathrm{AM}$ between hours of exercise and the corresponding and observes that the train is traveling at a speed of weight loss. Additionally, the graph includes a line of 60 miles per hour. Meanwhile, Eve boards another best fit as well. Which of the following best train from the same station, departing one hour approximates the slope of the line of best fit? later, and her train travels in the same direction at a speed of 70 miles per hour. What time will Eve's 80 train catch up to James' train? 20 80 (A)(A) 1:00 PM Weight I Ш ⅌ (B) 2:30 PM 30 20 (c) 4:00 PM 10 Hours <del>(D)</del> (D) 5:00 PM  $\frac{A}{A}$ (A) 8 (B) -8Question 14 of 22 > IV TEST SQUBE <del>(C)</del> (c) 10 D -10 <del>(D)</del> Section 2, Module 1: Math Mark for Review 15 ٧ The store is selling a shirt for \$20, The store is offering a 20% discount on the shirt. If there is a sales tax of 5% on the discounted price, what will be the final price of the shirt? A \$15.00 B \$15.20 <del>(B)</del> VI © \$16.00  $\frac{(c)}{c}$ <del>(D)</del> (D) \$16.80 VII TEST@QUBE Question 16 of 22 > Back Next TEST QUBE Question 15 of 22 >

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## Module 1

Section 2, Module 1: Math



Mark for Review 🗌

For the quadratic function f(x), f(1) = 4, f(2) = 7

Which equation could define f(x)?

$$(A) \ f(x) = x^2 + 3$$

 $\overline{(A)}$ 

$$\widehat{(\mathsf{B})} \ f(x) = 2x^2 - 1$$

(B)

$$\bigcirc f(x) = x^2 + x + 3$$

<del>(D)</del>

Section 2, Module 1: Math



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Mark for Review []

With the given system of equations 2x + 3y = 25x = 2y

What is the value of x?

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Section 2, Module 1: Math



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Mark for Review ☐

A hotel has a rectangular swimming pool with dimensions  $20\,\text{meters}$  in length and  $15\,\text{meters}$  in width. The manager fills the pool with water to a depth of  ${\bf 2}$  meters. What is the volume of water in the pool, measured in cubic meters?

(A) 450 cubic meters

(A)

(B) 400 cubic meters

(C) 300 cubic meters

 $(\widehat{D})$  600 cubic meters

<del>(D)</del>

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| Section 2, Module 1: Math   |                                   |  | Annotate                   | Section 2, Module 1: Math | Annotate  |  |
|---|-----------------------------------|--|----------------------------|---------------------------|---|--|
| 20  |                                   | ı  | Mark for Rev               | view 🔲                    |   | ark for Review 🏻   |
| The table p<br>distribution<br>student is c<br>population,<br>student pre | of stude<br>hosen ra<br>, what is | ents from the<br>Indomly fro<br>the probat | hree classe<br>om the tota | s. If a<br>I student      | Considering the given function $f(a)$ if there exists a linear function $g$ th function $f$ and intersects at the pois the $g$ -intercept of function $g$ ?   | at is parallel to  |
|   | Math                              | English                                    | Science                    | Total                     |   |  |
| Class A   | 40                                | 20   | 15                         | 75                        |   |  |
| Class B   | 80                                | 50   | 30                         | 160                       |   |  |
| Class C   | 30                                | 10   | 20                         | 60                        |   |  |
| Total   | 150                               | 80   | 65                         | 295                       |   |  |
| A 160/295   |                                   |  |                            | $\bigcirc \bullet$        |   |  |
| B 60/295  |                                   |  |                            | <b>⊕</b>                  | TEST領QUBE Question 21 of 22 >   | 1  |
| (c) 80/295  |                                   |  |                            | <b>(</b>                  |   | <b>C</b> 2   |
| (D) 150/295   |                                   |  |                            | <del>•</del>              | Section 2, Module 1: Math   | Annotate   |
|   |                                   |  |                            |                           | 22 M  | lark for Review 🗍  |
|   |                                   |  |                            |                           | Alice is trying to determine the o hours between her two jobs. She total of 30 hours per week while total. The first job offers a pay ra and the second job pays \$15 per hours should Alice work for the fachieve her desired earnings and | e aims to work a<br>earning \$300 in<br>te of \$5 per hour,<br>r hour. How many<br>first job in order to |
|   |                                   |  |                            |                           | (A) 20 hours  | -  |
|   |                                   |  |                            |                           | (B) 15 hours  | (4   |
|   |                                   |  |                            |                           | © 10 hours  | (  |
|   |                                   |  |                            |                           |   |  |

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