## Module 1

**(\*)** 35:00

Section 2, Module 1: Math



Section 2, Module 1: Math



Mark for Review □

How do the mean and standard deviation of Class  $\boldsymbol{A}$ compare to those of Class  $\boldsymbol{B}$  based on the scores of their students given in the list below?

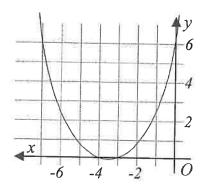
Class A	60	70	65	78	62
Class B	78	35	45	50	40

- Class  $oldsymbol{A}$  has a greater mean but lower standard deviation than Class B.
- Class  $oldsymbol{A}$  has a greater mean and standard deviation than Class  $\emph{B}_{\cdot}$
- Class  $oldsymbol{A}$  has a lower mean but greater standard deviation than Class B.
- Class  $oldsymbol{A}$  has a lower mean and lower (D) standard deviation than Class B.



Mark for Review

What is the most appropriate function to describe the graph depicted below?



(A) 
$$(x+4)(x+3)$$

(B) 
$$(x+4)(x+3)+6$$

© 
$$0.5(x+4)(x+3)$$

① 
$$2(x+4)(x+3)$$

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Section 2, Module 1: Math Section 2, Module 1: Math Annotate Mark for Review □ 4 Mark for Review 🗍 3 Which equation provides the best estimate for the Out of 300 residents in a town, a sample was slope of the line of best fit for the given graph randomly selected and asked if they were satisfied below? with the air quality. 30% of those surveyed responded positively. Based on this result, what is 100 the most accurate estimate of the total number of 90 residents in the town who are satisfied with the air 50 quality? 70 (A) 60  $\bigcirc$ 50 40 III 30 (B) B 30 <del>(c)</del> © 90  $\widehat{A}$  -8(D) (D) 120 <del>(B)</del> (B) 20 IV -20<del>(c)</del> D 8 <del>(D)</del> ۷

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Section 2, Mode	ule 1: Math	Annotate •
5	Ma	rk for Review 🏻
Which expressio $(a^4b^3c^{-1})(b^2c^{-1})$	n is equivalent to <sup>-3</sup> ), where <i>a,b,</i> and	d c are positive?
$ \boxed{ \textcolor{red}{ \textcolor{blue}{ \textcolor{blue}}  } } } } } } } } } } } } } }}}}}}}}$		lack lack lack
$igl( egin{array}{c} egin{array}{c} B \end{array} a^4b^5c^{-4} \end{array}$		<del></del>
$ \boxed{\bigcirc \ a^4b^6c^3}$		<u> </u>
$oxed{\mathbb{D}} a^8 b^3 c^{-2}$		1
TEST變QUBE Section 2, Modu	Question 5 of 22>	Annotate
6		rk for Review 🎵
from home to sc	epresents the dista hool after driving a odel, what is the in me to school?	m miles.
g(m) = -0.5m	+ 20	
(A) 15		<u>⊕</u>
B 10		<del></del>
© 20		0

Section 2, Module 1: Math Mark for Review ☐ Given that a table provides the distribution of favorite classes and grade levels of 100 students, 11 what is the likelihood of randomly selecting a student who is a sophomore and has Math as their favorite class? **Favorite Class** Grade Math English Science Total Freshman 9 8 5 22 III Sophomore 8 9 12 29 Junior 4 10 8 22 Senior 9 13 5 27 Total 30 40 30 100 IV (A) 2/25 (A) (B) 3/10 (c) 29/100  $\bigcirc$  1/2**(D)** VI

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(D) None of the above

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Section 2, Module 1: 1	Math 	Annotale	Section 2, Module 1: Math	Annotate
8	Mark for R	leview 🏻	10	Mark for Review
A right triangle $ABC$ $DEF$ , where angle $B$ angle $A$ corresponds $AB$ is $A$ , $BC$ is $A$ and $DF$ ? (Angles $B$ and $B$	corresponds to an to angle $D$ . If, the let $DE$ is $oldsymbol{6}$ , what is th	igle $m{E}$ and ength of	What is the $y$ -coordinate of function $g$ if it is perpendic $h(x)=0.5x+48$ and paintercept at $(3,0)$ ?	ular to
(A) 12	are right angles./	$\bigcirc$	(A) 6	
B 5		<del>-</del>	(B) −2	
© 10		<b>→</b>	© 48	
(D) 8		<del>•</del>	(D) -6	
TEST QUBE	uestion 8 of 22 >	Annotate	TEST QUBE Question 1  Section 2, Module 1: Math	O of 22 > Annot
			Section 2, Module 1: Math	Auntol Mark for Review
Section 2, Module 1: I  9  Which of the following value of James' house worth \$200, 000 and is percent every three m  (A) \$250,000	Math  Mark for R  would be the <u>app</u> after a year if it is o	roximate currently by 25	Section 2, Module 1: Math	Mark for Review e was a proposal for sults showed that th its who voted in favo
Section 2, Module 1: I  9  Which of the following value of James' house worth \$200, 000 and in percent every three m  (A) \$250,000  (B) \$390,625	Math  Mark for R  would be the <u>app</u> after a year if it is o	roximate currently by 25	On the election ballot, there were twice as many studen the proposal as those who were 2, 000 students who proposal, how many students.	Mark for Review e was a proposal for sults showed that th its who voted in favo
Section 2, Module 1: I  9  Which of the following value of James' house worth \$200, 000 and is percent every three m  (A) \$250,000	Math  Mark for R  would be the <u>app</u> after a year if it is o	roximate currently by 25	Section 2, Module 1: Math  On the election ballot, there new grading policy. The res were twice as many studen the proposal as those who were 2, 000 students who proposal, how many studen [A] 1000	Mark for Review e was a proposal for sults showed that th its who voted in favo

Section 2, Module 1: Math

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12	Mark for Review 🗍
What is the volume, in cubic rectangular prism with a length $6cm$ , and a height of $8cm$ ?	
TEST@QUBE Question 12 o	1(22.5)
Section 2, Module 1: Math	Annotate #
13	Mark for Review 🗌
How many real solutions doe	
havo?	s the equation below
have? $8x^2 + 17x + 3 = 0$	s the equation below
have?	s the equation below
have? $8x^2 + 17x + 3 = 0$	s the equation below  A

14 Mark for Review ☐ Which equation among the options below best represents the line of best fit in the scatterplot displaying the relationship between variables  $oldsymbol{x}$ and y? (Note: The graph below does not illustrate x=0.) 45 25  $\bigcirc \overline{ 1.25x + 20}$ -1.25x + 20(c) 4x + 10-4x - 10**(** 

VII

(D) Exactly two



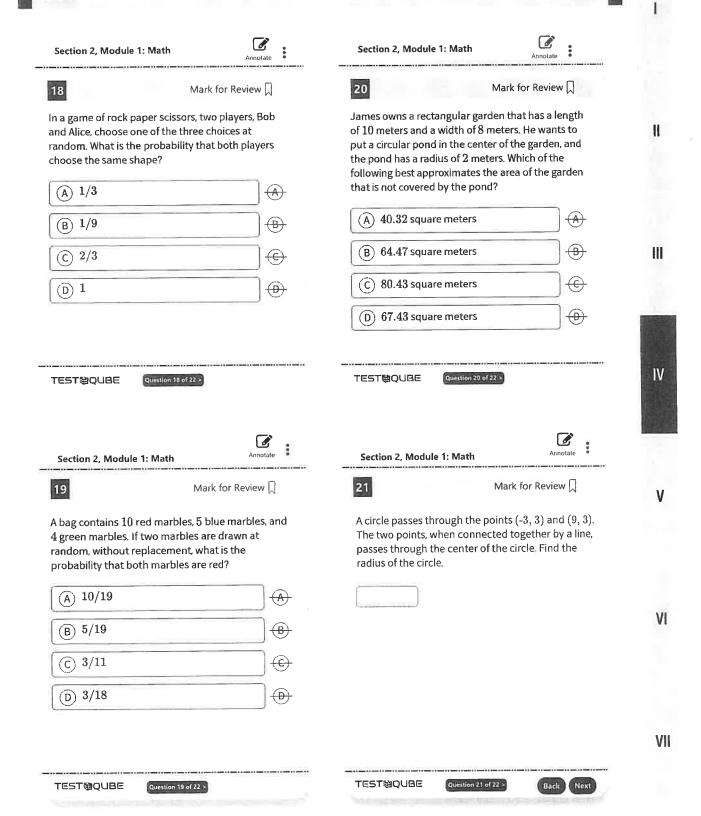


Section 2, Module 1: Math Mark for Review 🗌 15 Bob bought a phone that was on sale at a store. The phone was on 70% discount but included a 11 20% tax which ended up costing Bob 900 dollars. What was the original price of the phone? (A) \$1000 (A) (B) \$1500 III (C) \$2500 (D) \$3000 (D) IV TEST@QUBE Question 15 of 22 > Section 2, Module 1: Math Mark for Review 🗍 16 ۷ What is the area, in square meters, of a rectangular garden that has a perimeter of 100 meters and where the length is  $10\ \mathrm{meters}\ \mathrm{more}\ \mathrm{than}\ \mathrm{the}\ \mathrm{width?}$ VI

Section 2, Module 1: Math 17 Mark for Review [ The bar graph below shows the scores for each student in Mr. Jackson's math class where each student spent different amounts of time preparing for the exam. What is the average score of the students based on the bar graph? 80 Student's Score 20 J 4 Time (Hours)







	Section 2, Module 1: Math	Annotate
	22	Mark for Review
11	An elevator can carry a max The elevator operator weigh passenger weighs 150 pour maximum number of passe can carry if the elevator is al 300 pounds?	ns 200 pounds and each nds. What is the ngers that the elevator
	(A) 4 passengers	<b>⊕</b>
HI	B 3 passengers	<b>⊕</b>
	© 2 passengers	<u> </u>
	D 5 passengers	<b>•</b>
IV		

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