

(b) 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?

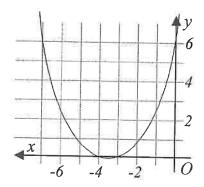
Class A	60	70	65	78	62
Class B	78	35	45	50	40

- Class \boldsymbol{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
- \bigcirc 0.5(x+4)(x+3)
- (D) 2(x+4)(x+3)

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(D)



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 (c) © 90 \widehat{A} -8(D) (D) 120 (B) (B) 20 IV -20(c) D 8 (D) ۷ VI

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Module 1

Section 2, Module 1: Math Mark for Review 🗍 Which expression is equivalent to $(a^4b^3c^{-1})(b^2c^{-3})$, where a,b, and c are positive? \bigcirc $a^8b^{-9}c^3$ (B) $a^4b^5c^{-4}$ (c) $a^4b^6c^3$ $\widehat{\text{(D)}} \ \overline{a^8 b^3 c^{-2}}$ TEST@QUBE Section 2, Module 1: Math Mark for Review 🗌 The function g represents the distance, in miles, from home to school after driving m miles. Based on this model, what is the initial distance in miles from home to school? g(m) = -0.5m + 20

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Annotate

Given that a table provides the distribution of favorite classes and grade levels of 100 students. what is the likelihood of randomly selecting a student who is a sophomore and has Math as their favorite class?

Grade	Favorite Class				
Grade	Math	English	Science	Total	
Freshman	9	8	5	22	
Sophomore	8	9	12	29	
Junior	4	10	8	22	
Senior	9	13	5	27	
Total	30	40	30	100	

(A) 2/25	<u> </u>
B 3/10	
© 29/100	•
D 1/2	(D)

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(D) None of the above

(A) 15

(B) 10

(c) 20

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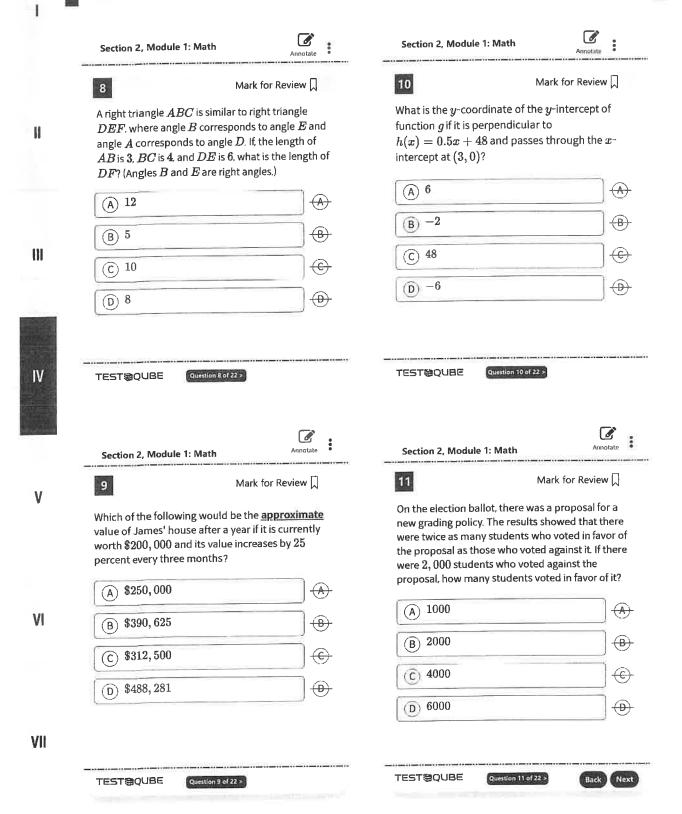








Module





Section 2, Module 1: Math 12 Mark for Review 🗍 14 What is the volume, in cubic centimeters, of a rectangular prism with a length of 10cm, a width of 6cm, and a height of 8cm? TEST稳QUBE Question 12 of 22 > Section 2, Module 1: Math 13 Mark for Review 🗌 How many real solutions does the equation below have? $8x^2 + 17x + 3 = 0$ (A) Exactly one (B) Zero

Section 2, Module 1: Math Mark for Review ☐ Which equation among the options below best represents the line of best fit in the scatterplot II displaying the relationship between variables $oldsymbol{x}$ and y? (Note: The graph below does not illustrate x=0.) III (A) 1.25x + 20-1.25x + 20IV (c) 4x + 10-4x - 10(D)

C Infinitely many

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(D) Exactly two

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Module 1

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Section 2, Module 1: Math Section 2, Module 1: Math 17 Mark for Review ☐ Mark for Review 🗌 15 The bar graph below shows the scores for each Bob bought a phone that was on sale at a store. student in Mr. Jackson's math class where each The phone was on 70% discount but included a 11 student spent different amounts of time preparing 20% tax which ended up costing Bob 900 dollars. for the exam. What is the average score of the What was the original price of the phone? students based on the bar graph? (A) \$1000 (A) (B) \$1500 80 Student's Score III (C) \$2500 (D) \$3000 (D) 20 Time (Hours) IV TEST@QUBE 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 VII

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a game of rock paper scissors, to ad Alice, choose one of the three andom. What is the probability th anoose the same shape?	choices at	James owns a rectangular garden th of 10 meters and a width of 8 meters put a circular pond in the center of th the pond has a radius of 2 meters. W following best approximates the area	s. He wants to he garden, and hich of the
A) 1/3	(A)	that is not covered by the pond?	
B 1/9	B	(A) 40.32 square meters	<u> </u>
C 2/3	©	B 64.47 square meters	⊕
D 1	(D)	© 80.43 square meters	©
	Annotate	© 67.43 square meters TEST ♥ QUBE Question 20 of 22 > Section 2, Module 1: Math	Annotate
Section 2, Module 1: Math		TEST QUBE Question 20 of 22	
Section 2, Module 1: Math Math bag contains 10 red marbles, 5 green marbles. If two marbles andom, without replacement, wi	ark for Review \(\bigc\) blue marbles, and are drawn at the marking the	TEST QUBE Question 20 of 22 > Section 2, Module 1: Math	Annotate for Review \square (-3, 3) and (9, 3). begether by a line,
Section 2, Module 1: Math	ark for Review \(\bigc\) blue marbles, and are drawn at the marking the	Section 2, Module 1: Math 21 Mark A circle passes through the points The two points, when connected to passes through the center of the circle passes through the circle passes	Annotate for Review \square (-3, 3) and (9, 3). begether by a line,
Deection 2, Module 1: Math Mathematics 10 red marbles, 5 green marbles. If two marbles andom, without replacement, who be a second solution of the same of the sa	blue marbles, and are drawn at nat is the red?	Section 2, Module 1: Math 21 Mark A circle passes through the points The two points, when connected to passes through the center of the circle passes through the circle passes	Annotate for Review \square (-3, 3) and (9, 3). begether by a line,
Dag contains 10 red marbles, 5 green marbles, If two marbles and marbles are robability that both marbles are	blue marbles, and are drawn at nat is the red?	Section 2, Module 1: Math 21 Mark A circle passes through the points The two points, when connected to passes through the center of the circle passes through the circle passes	Annotate for Review \square (-3, 3) and (9, 3). begether by a line,

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	Section 2, Module 1: Ma	th Annotate
	22	Mark for Review 🗌
II	The elevator operator we passenger weighs 150 po maximum number of pas	naximum of 1,000 pounds, eighs 200 pounds and each bunds. What is the ssengers that the elevator s already carrying a load of
	(A) 4 passengers	⊕
HI	B 3 passengers	⊕
	© 2 passengers	0
	D 5 passengers	⊕
IV		

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