/12/24, 5:01 PM	Section 3 EST January 2023: Attempt review
	Elmins, Elmins, Elmins
Started on	Friday, 12 January 2024, 10:01 AM
	Finished
	Friday, 12 January 2024, 10:01 AM
Time taken	
Grade	0.00 out of 20.00 (0 %)
Question 1	M. M.
Not answered	
Marked out of 1.00	
The range y of the f	function f defined by $f(x) = 1 - 2x - x^2$
Select one:	
○ a. y < 2	
b. y ≤ 2	"Tio "Tio "Tio
c. y ≥ -2	the the
○ d. y < -2	rrect.
	ins ins
Your answer is inco	rect.

The correct answer is: $y \le 2$

Question 2

Not answered

Marked out of 1.00

If the graphs of xy = 1 and xy = -1 are drawn on the same set of axes, how many point(s) will they have in common?

Select one:

a. 0

b. 1

- O c.
- d. Infinite

Your answer is incorrect.



Marked out of 1.00

If y = 4 and $x = \frac{1}{8}$, then the value of y in terms of x is:

Select one:

a. $y = \frac{2}{x}$ b. y = 2xc. $y = \frac{1}{2x}$

- \bigcirc d. x=2y

Your answer is incorrect

The correct answer is: $y = \frac{1}{2x}$

Question 4

Not answered

Marked out of 1.00

Tt.

(y.x.-2)

Mlowing mu What is the range of the exponential function $y = -5.3^{x+2} -2?$

Select one:

- \bigcirc a. {y/y > 2}
- \bigcirc b. {y/y < -2}
- o. $\{y/y < 2\}$
- \bigcirc d. {y/y < -5}

Your answer is incorrect

The correct answer is: $\{y/y < -2\}$

Question 5

Not answered

Marked out of 1.00

If xy < -1 and x < y, which of the following must always be positive?

Select one:

- a. x − y
- b. y x
- \bigcirc c. 2x + y
- $d. x^2 v^2$

Your answer is incorrect.

The correct answer is: y - x

	_
A	_
Ougstion	

Marked out of 1.00

Amr and his friends compared the amount of time x (in hours) spent studying versus their scores y (over 10) on a Math test. The result is modeled by the linear equation y = 2.93x + 1.21. Which of the below predictions could be made?

- I. It is impossible for anyone to score below 1.21
- II. The minimum number of studying hours need to get a full score is 3
- III. Studying for 2 hours would guarantee a score above the average

Select one:

- a. I only
- b. II only
- c. I and II only
- d. I, II, and III

Your answer is incorrect

The correct answer is: I and II only

Question 7

Not answered

Marked out of 1.00

.rs and $y^2 = x^2 + z^2$, which of the following is true? If x and y are two consecutive integers and y²

Select one:

- \bigcirc a. y = x + z

- Od. z = 1 x

The correct answer is: $z^2 = 2x + 1$

Not answered

Marked out of 1.00

How does g(x) change over the interval [-2,2]?



Select one:

- a. q(x) decreases by 6
- b. q(x) decreases by 12
- c. g(x) decreases by 4
- d. g(x) increases by 12

Your answer is incorrect.

The correct answer is: g(x) decreases by 12

Question 9

Not answered

Marked out of 1.00

$$\frac{ca^2-cb^2}{a+b}$$
 is equivalent to ca plus

Select one:

- a. cb
- b. -cb
- c. -b
- d. 1+cb

Your answer is incorrect.

Not answered

Marked out of 1.00

In the figure below, \overline{BF} is perpendicular to \overline{BE} , and $m \angle FBA = 60^\circ$. What is the value of x? (figure not drawn to scale)



Select one:

- a. 60
- o b. 120
- o. 150
- d. 160

Your answer is incorrect

The correct answer is: 150

Question 11

Not answered

Marked out of 1.00

If
$$\frac{2x-5y}{2y}$$
 = -2, what is the value of $\frac{-3y}{x}$ + 1?

Select one:

- a.
- b. -3
- c. -4
- d. -5

Your answer is incorrect.

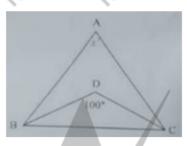
1/12/24, 5:01 PM	Section 3 EST January 2023: Attempt review	
Question 12 Not answered	Willest Willest Willest	
Marked out of 1.00		
rows of seats are filled, knowing that	is if 8 students remain unseated after 3 rows of seats are filled, and 2 students remain unseated after 4 all the rows are the same?	4
Select one:	io, Millo	
oc. 38		
O d. 42		
Your answer is incorrect.		
The correct answer is: 26	Math Wath Wath	
Question 13	Me Me Me	
Not answered		
Marked out of 1.00	Shr Shr	
When 5 is subtracted from $\frac{1}{5}$ of a num	ber, the result is 10, What is the number?	
Select one:	En En En	
○ a25	May May May	
O b. 10	(1/5) (1/5)	
○ c. 25	Hall Hall Hall	
○ d. 75	ionamed En	
Your answer is incorrect.	wall wall	
The correct answer is: 75	io, "Elloy,	
Question 14	M.	
Not answered Marked out of 1.00		
A factor of the polynomial x^2 - 5x + 6	is:	
Select one:	20 20 20	
○ a. x − 2	Mall Mall	
○ b. x+1	The The The	
○ c. x+3	The state of the s	
O d. 2+x	is: quiz/review.php?attempt=18597&cmid=1560	
Your answer is incorrect.	Her Her Her	
The correct answer is: x – 2	hu hu hu	
ttps://academy.minshawymath.com/mod/o	uiz/review.php?attempt=18597&cmid=1560	(

12/24, 5:01 PM	Section 3 EST January 2023: Attempt review
Question 15	25/1
Not answered	ille dille
Marked out of 1.00	
~~ ~~	
If $3x - 5 = 10$, what is the value of $10x + 5$?	named
Select one:	
Select one: a. 21.7 b. 55	
O b. 55	
○ c. 125	
O d. 455	
Your answer is incorrect.	
The correct answer is: 55	
	Lawhath whath whath
Question 16	Var. Var.
Not answered	L. L. L.
Marked out of 1.00	My, My, My,
	"L'O "L'O
Line L is perpendicular to line T of the equation $5x - 3y + 2 =$	0. What is the slope Line II perpendicular to 12
Line L is perpendicular to line 1 of the equation 5x – 5y + 2 =	o. What is the slope Line o perpendicular to L:
Select one:	K. K.
○ a. 5	Land Land
\circ b. $\frac{5}{3}$	No. No.
Co.	. 75
C. <u>5</u>	
○ d5	
9, 9,	20,0
Your answer is incorrect.	1/10
The correct answer is: $\frac{5}{2}$	The same of the sa
C. $\frac{-3}{5}$ C. d5 Your answer is incorrect. The correct answer is: $\frac{5}{3}$	
El, El, El,	
O_{II} , O_{II} , O_{II}	
	~ ~ ~

Not answered

Marked out of 1.00

In the isosceles triangle ABC shown below, \overline{BD} and \overline{CD} are the bisectors of the base $x = \sqrt[3]{x}$? angles. What is the value of x? (figure not drawn to scale)



Select one:

- a 20
- b. 60
- o. 100
- d. 120

Your answer is incorrect.

The correct answer is: 20

Question 18

Not answered

Marked out of 1 00

What is/are the real value(s) of x for which $-x = \sqrt[3]{x}$

Select one:

- a.
- b. -1
- O c. 0
- d. -1,0,and 1

Your answer is incorrect.



Marked out of 1.00

The graph below shows a sketch of the curve with equation y = f(x)



There is only one maximum point on the curve of coordinates (3,7). What are the coordinates of the maximum point on the curve with equation y = f(x+3)? (figure not drawn to scale)

Select one:

- a. (6.7)
- b. (0,4)
- c. (3,4)
- d. (0,7)

Your answer is incorrect.

The correct answer is: (0,7)

Question 20

Not answered

Marked out of 100

of the maximum point on the curve A library charges **a** cents for the first 5 days that a book is borrowed and **b** cents for each day over the 5 days. What is the total cost for borrowing a book for **c** days where **c** is greater than 10?

Select one:

- a + bc a.
- \circ b. a + b(c 5)
- \circ c. a + b(c -10)
- \bigcirc d. b + a(c 10)

Your answer is incorrect

The correct answer is: a + b(c - 5)

Started on Friday, 12 January 2024, 10:02 AM

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Completed on Friday, 12 January 2024, 10:02 AM

Time taken 24 secs

Grade 0.00 out of 38.00 (0%)

Question 1

Not answered

Marked out of 1.00

to be covered in total by making an adverse of the covered in total by making and the If you walk 4 laps on a specific track, you cover 3 miles. How many miles are you expected to be covered in total by making an additional 1 lap?

Select one:

- a. 0.75
- o b. 2.25
- c. 3.75
- d. 4.75

Your answer is incorrect.

The correct answer is: 0.75

Question 2

Not answered

Marked out of 1.00

If
$$\frac{t}{2u}$$
 =3, $\frac{2r}{s}$ =16, and $\frac{s}{t}$ =2, then $\frac{u}{r}$ =

- O c.
- od. 96

Your answer is incorrect.

The correct answer is: $\frac{1}{96}$

	~
Question	.5

Marked out of 1.00

$$2(\frac{x}{5}-\frac{1}{3})-3x=\frac{1}{5}$$

 $2(\frac{x}{5}-\frac{1}{3})-3x=\frac{1}{5}$ What is the solution to the equation above?

Select one:

a. x=-3b. $x=\frac{-1}{3}$ c. $x=\frac{-15}{24}$ d. $x=\frac{15}{8}$

Your answer is incorrect.

The correct answer is: $x = \frac{-1}{3}$

Question 4

Not answered

Marked out of 1.00

es through the y –intercept of straight line L of If the straight line D of equation 3x + ay -1 = 0 passes through the y-intercept of straight line L of equation 2x - 3y = -2, what is the slope of

Select one:

- a. -2
- \bigcirc b. $\frac{2}{3}$
- Od. -3

Your answer is incorrect

	~~`	0	30	7
Question 5	201	25	201	
Not answered				
Marked out of 1.00		7/10.		
	` `			

Which point has the shortest distance to the origin of a coordinate plane?

Select one:

- a. (0, -4)
- o b. (2, 6)
- c. (-4, 1)
- d. (-1, -5)

Your answer is incorrect.

The correct answer is: (0, -4)

Question 6

Your answer is incorrect.

The correct answer is: \(\\ \frac{ah}{w}\\) A man works "a" times as fast as any one of his helpers. If the man does a job in "h" hours, how many hours are required for "w" helpers to the

	~~			
Question 7	5	, 5	25/	
Not answered				
Marked out of 1.00			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	V/		V/	

On a TV show, competitors have to prepare a specific meal in x minutes. The minimum length is 15 minutes, and the maximum length is 20

Which equation represents the given situation?

Select one:

- a. $|x 20| \le 15$
- b. $|x 17.5| \le 2.5$
- c. $|x 15| \le 20$
- d. |x 2.5| ≤ 20

B and C are points on segment AD such that AB = BC = CD; What ratio of BC is AD?

Select one:

a. \(\frac{1}{3}\)

b. \(\frac{2}{3}\)

c. \(\frac{4}{3}\)

d. 3

Your answer is incorrect.

The correct answer is: \(\frac{1}{3}\)

Not answered

Marked out of 1.00

If $\log_x 6 = m$, $\log_x 3 = n$, and $6^a = 3$, then a = 1

Select one:

- a. mn
- b. \(\frac{n}{m}\)
- \(\frac{m}{n} \)
- O d. n-m

$$\begin{cases} y \ge 0 \\ x - 2 \le -3 \\ y - x \le 3 \end{cases}$$

Information

Questions 11 and 12 refer to the following information

Majed walks from home to the coffee shop. He spends 20 minutes drinking his coffee. He then walks back to his home at a constant speed of 4.8 km/h. The distance-time graph below shows part of his journey



Question 11

Not answered

Marked out of 1.00

Find the speed, in km/h, at which Majed walks to the coffee shop?

Select one:

- a. 0.8 km/h
- b. 2.4 km/h
- c. 3.2 km/h
- d. 8 km/h

Your answer is incorrect.

The correct answer is: 3.2 km/h

Question 12

Not answered

Marked out of 1.00

At what time does he arrive back at home?

Select one:

- a. 9:10
- ob. 9:45
- c. 9:55
- d. 10:05

Your answer is incorrect

Question 13	201	6	201
Not answered			
Marked out of 1.00	SIL.	7/10.	7/L.

During the festive season, a \$500 item is reduced 15 percent. If a percent charge is made on the reduced price for packaging and delivery, what is the final cost of this item?

Select one:

- a. \$500
- ob. \$361.25
- c. \$350
- d. \$488.75

Your answer is incorrect.

The correct answer is: \$488.75

Information

Questions 14 to 18 refer to the following information

The table below shows a payroll example in certain company

Position	No. of employees	Salary paid (in thousands)
Worker	400	550
Supervisor	15	120
Manager	3	36

Question 14

Marked out of 1.00

?mid=1561 The salaries paid to supervisors make up approximately what percent of the total payroll?

Select one:

- a. 15
- o b. 16
- oc. 17
- d. 18

Your answer is incorrect

, ,		
Question 15	institution institution	
Not answered Marked out of 1.00	HUII (HUII)	
What is the average salary for all emplo	oyees?	
Select one:	ohamin Mohami	
○ a. \$1689	0/10	
○ b. \$4725	in the second	
○ c. \$1375	ell.	
od. \$592		
U. \$392		
Your answer is incorrect.		
The correct answer is: \$1689		
•	20 20 20	
Question 16 Not answered	The The The	
Marked out of 1.00	any any	
	Elio Elio	
What is the ratio of the average salary	of a manager to the average salary of a supervisor?	
Select one:	ALC ALC ARE	
<pre>a. \(\frac{2}{3}\)</pre>	Minshawy in shawy in shawy in	
○ b. \(\frac{3}{2} \)	No No No	
c. \(\frac{1}{5}\)	112, 112, 112,	
○ d. \(\frac{3}{10} \)	HUI, THUI, THUI,	
>		
Your answer is incorrect.		
The correct answer is: \(\frac{3}{2}\)	all, all,	
The correct answer is. If Inde(5)[2] ()	office "office	
- Marie	is the	
Question 17 Not answered	ell.	
Marked out of 1.00		
The owner of the company decided to	increase the salaries of the workers by 20% of the supervisors by 3%, and of the manager by	2% Bv
what percent did the average salary in		
Select one:		
O a. 114.32	The The State of t	
O b. 16.19	The The West	
oc. 13.94	Mr. Mr. Mr.	
O d. 25	No No No	
	crease?	
Your answer is incorrect.	HALL HALL HALL	
The correct answer is: 16.19	7x 7x 7x	
	My, My, My,	
os://academy.minshawymath.com/mod/a	uiz/review.php?attempt=18598&cmid=1561	
	1001	

12/24, 5:02 PM	Section 4 EST January 2023: Attempt review
Question 18	25/1
Not answered	dill's dill's
Marked out of 1.00	10.
The employees decided to form committee of 3 members. I each position? Select one: a. \(\frac{18000}{12085216}\) b. \(\frac{3}{418}\) c. \(\frac{418}{1254}\) d. \(\frac{1}{400}\)*\(\frac{1}{15}\)*\(\frac{1}{3}\)	n electing the three members, what is the probability to have one employee from
Your answer is incorrect. The correct answer is: \(\frac{18000}{12085216} \)	Wath Wath Wath
Question 19	My My My
Not answered	No. No. No.
Marked out of 1.00	
If f(a) = a ² + 5 for all real values of a, which of the following Select one: a1 b. 3 c. \(\sqrt[]{5}\) d. 2\(\sqrt[]{7}\) Your answer is incorrect. The correct answer is: 2\(\sqrt[]{7}\)	is a possible values of f(a)?
Mr. Mr. Mr.	

Not answered

Marked out of 1.00

Of Ibrahim's salary, \(\frac{1}{3} \) is spent for clothing, \(\frac{2}{5} \) for food, and \(\frac{1}{10} \) for transportation. What part of Ibrahim's salary is left for other expenditures and savings?

Select one:

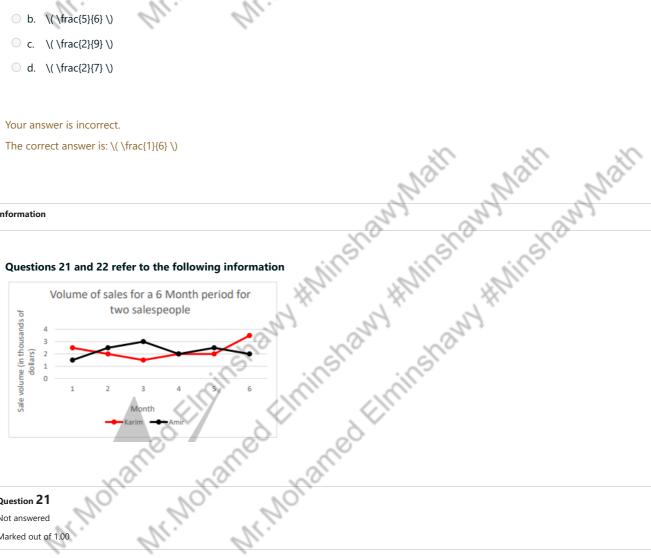
- a. \(\frac{1}{6}\)
- \(\frac{5}{6}\)
- O c. \(\frac{2}{9}\)
- d. \(\frac{2}{7}\)

Your answer is incorrect.

The correct answer is: \(\frac{1}{6}\)

Information

Questions 21 and 22 refer to the following information



Question 21

Not answered

Marked out of 1.00

nid=1561 Consider Amir's sale record from month 5 to month 6. What is the percent change?

Select one:

- a. Increase by 20%
- b. Increase by 25%
- o. Decrease by 20%
- Od. Decrease by 25%

Your answer is incorrect.

The correct answer is: Decrease by 20%

	- V-		A 4.0
Question 22	5	5	5
Not answered			
Marked out of 1.00		////	\!\(\(\)\)

How much greater are the sales for Amir's best month than Karim's best month?

Select one:

a. \$500

b. \$1000

- C.
- d. \$5000

Your answer is incorrect.

ent. Mohamad Elminshamad Elminshamad Elminshamah M. Mohamad Elminshamad Elmins The correct answer is: \$500

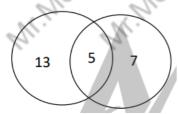
Question 23 Not answered

Marked out of 1.00

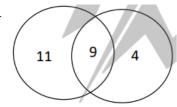
In my school, the robotics club (R) has 20 students, and the public speech club (P) has 9 students. If a total of 15 members belong to only one of the two clubs, which of the following Venn diagrams is a correct representation of students in both clubs?

Select one:

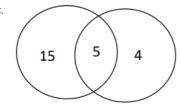




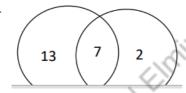
b.



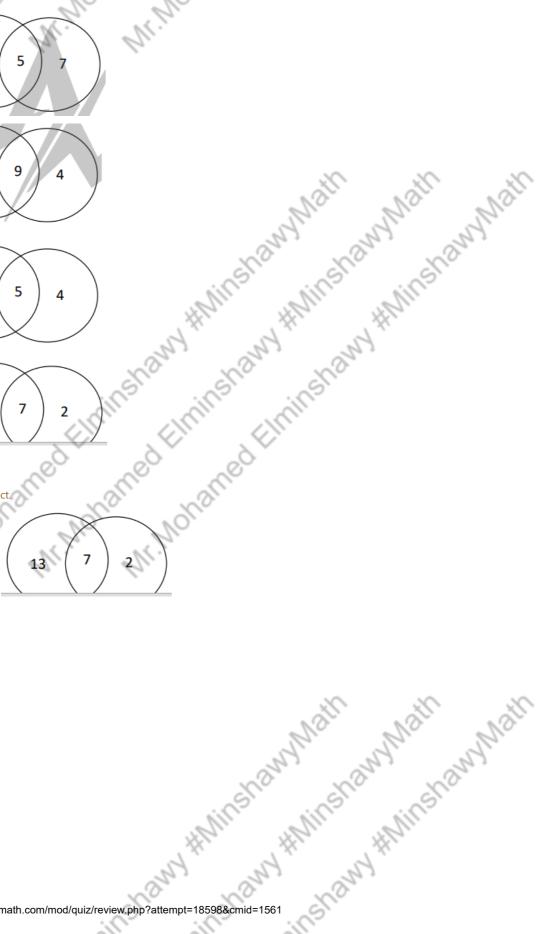
O c.



d.



Your answer is incorrect



Question 24 Not answered

Marked out of 1.00

Select one:

- a. 2x-2y
- b. -2x-2y
- C. -2
- d. 2x+2y

Your answer is incorrect.

The correct answer is: 2x+2y

Question 25

Not answered

Marked out of 1.00

Select one:

- a. x+1
- \bigcirc b. x^2
- c. 2x
- d. x-1

Your answer is incorrect.



Your answer is incorrect.

o d. $f(x) = 1.04^x$

The correct answer is: $f(x) = 4^x$

Question	2	a

Marked out of 1.00

If the circumference of a circle increases from $\ (\pi \)$ cm, what change occurs in the area?

Select one:

- a. It remains the same
- Ob. It is halved
- C. It is doubled
- d. It is quadrupled

Your answer is incorrect.

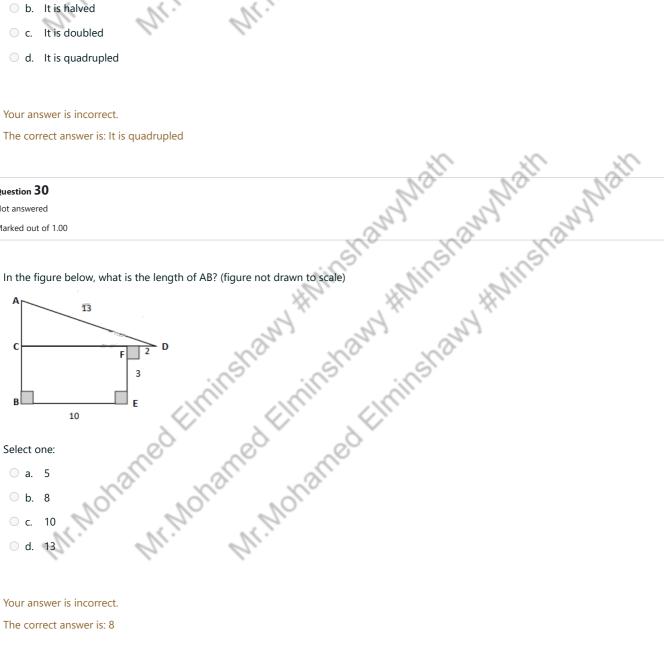
The correct answer is: It is quadrupled

Question 30

Not answered

Marked out of 1.00

In the figure below, what is the length of AB? (figure not drawn to scale)



Select one:

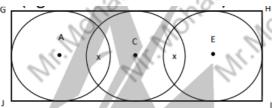
- a. 5
- b. 8
- O c.
- d.

Your answer is incorrect.

HAINSHAWANIALL SHAWANAHIN SHAWANA



In the figure below, three equal circles of centers A, C, and E and each of radius 3 cm are inscribed in a rectangle JGHI. If x = 1 cm, then what is the perimeter of rectangle JGHI? (figure not drawn to scale)



Select one:

- a. 32 cm
- b. 44 cm
- c. 48 cm
- d. 96 cm

Your answer is incorrect.

The correct answer is: 44 cm

Question 32

Not answered

Marked out of 1.00

5 kilograms of zucchini costs as much as 7 kilograms of tomato and 1 kilogram of cucumbers. 5 kilograms of tomato costs as much as 1 kilogram of zucchini and 3 kilograms of cucumbers. How many kilograms of tomato can be purchased with the amount of money needed to purchase 8 kilograms of zucchini?

Select one:

- a. 8
- b.
- O c.
- Od. 15

Your answer is incorrect.

12/24, 5:02 PM	Section 4 EST January 2023: Attempt review
Question 33	251 251
Not answered	all all all
Marked out of 1.00	The Sheet Sheet
The gasoline indicator in Adam's car graph capacity of the tank, in gallons, in Adam's Select one: a. 4 b. 4.5 c. 7.2 d. 18	oes from \(\frac{1}{3} \) to \(\frac{5}{9} \) when he adds 4 gallons into the tank. What is the total m's car?
Your answer is incorrect. The correct answer is: 18	Nath Nath
Question 34	The The The
Not answered	Eg, Eg,
Marked out of 1.00	The the the
	with 10 to 14 bureaus. In each bureau, there are at least 30 but no more than 50 workers. If 20% of the me minimum number of web developers in a department?
Select one:	En, En,
a. 36	Elle Elle Elle
O b. 60	dill's dill's dill's
○ c. 360	Hu, Chu, Chu,
O d. 1800	Charned Elkir, Charned Elkir,
Your answer is incorrect.	0/12

2/24, 5:02 PM	W. D. J.	Section 4 EST Janu	uary 2023: Attempt rev	view	
Question 35	201	5	5		
Not answered					
Marked out of 1.00	10.	U. 7/1	,		
Nabil can do a job in 6 hours, and his se	on can do it in 10 hou	ırs. How long would i	t take them to do the	job if they worked to	gether?
Select one:	on can do it in 10 not	May.			
a. 0.27 hours	o, M),			
b. 3 hoursc. 3.75 hours	Mi				
Od. 6 hours					
Your answer is incorrect.					
The correct answer is: 3.75 hours					
			N	111	Ne
Question 36			N.o.	11.0	1.0
Not answered		3	4 6	1 4	
Marked out of 1.00		2	2	2	
		5	5	S	
If the length of an object y is directly pr	oportional to its weig	ght x, and a 5 meters	length weighs 2 kilogi	rams, how many kilog	grams is a 2 meters
length of object y?		HO.	Y_{D} , Y_{i}	M.	
Select one:	12	the "	, Fr		
O a. 0.4	NO.	201	" SLOWY		
O b. 0.8	. 25	. 25	. 25		
O c. 2.5	All I	all it			
O d. 5	`` (<)				
- CO	eco.	-60-			
Your answer is incorrect.	alle	alle			
The correct answer is: 0.4	The said	No			
c. 2.5d. 5 Your answer is incorrect. The correct answer is: 0.4	" Mill				
/- /-	/-				

12/24, 5:02 PM	.00	Section 4 EST January	2023: Attempt review	
Question 37	5	25/	5	
Not answered	ille	dille dil		
Marked out of 1.00	71,	U . $\Box U$.		
~				
A basketball team plays 78 games in t	he regular season. Afte	er a certain date, the team	n won 30 and lost 10 g	ames. How many of the remaining
games must the team win to finish the			nes?	
Select one:	ionio Willia	N.		
○ a. 9	in a			
○ b. 13	Mi.			
	1/2			
○ c. 15				
O d. 21				
Your answer is incorrect.				
The correct answer is: 13				
			Sill.	The The
		5	The The	io Mo
Question 38 Not answered		Ry	· Eller	19
Marked out of 1.00		V. D.	200	VD.
		5	5	2
Tomatoes originally sold at 4 kilogram	es for ¢1 were reduced	in union to 2 bilancement fo	# ¢0.4. By boyy may ab y	une the price year bile arrang reduced?
iomatoes originally solu at 4 kilogram	s for \$1 were reduced	in price to 2 kilograms to	1 \$0.4. By HOW HIUCH V	vas the price per knogram reduced:
Select one:	12	My 1	Elm	
a. 0.05	20	VD.	200	
O b. 0.2	. 25	. 5	5	
O c. 0.25	All .	all all		
O d. 0.6				
29	9	9		
	200	200		
Your answer is incorrect.	NO.	201		
c. 0.25 d. 0.6 Your answer is incorrect. The correct answer is: 0.05	0, 10	2,		