Started on	Friday, 12 January 2024, 9:52 AM
State	Finished
Completed on	Friday, 12 January 2024, 9:52 AM
Time taken	13 secs
Grade	**0.00** out of 20.00 (**0**%)

Question 1

Not answered

Marked out of 1.00

1. If $9^{2x+1} = \dfrac{1}{27}$, then what is the value of 4^{4x+5}?

A) 0

B) 1

C) 4

D) 256

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 2

Not answered

Marked out of 1.00

2. Which of the following is the ordinate of the vertex of the function $f(x) = 2x^2 - 8x + 3$?

A) 2

B) 0.5

C) -5

D) -8

Select one:

- ○ A
- ○ B
- ○ C
- ○ D

Your answer is incorrect.

The correct answer is: C

Question 3

Not answered

Marked out of 1.00

3. Which of the following is equivalent to:

$3x(x+1)(4x-1) + 2(x-5)(3x-7) - (2x-3)^2$

A) $12x^3 + 11x^2 - 35x + 61$

B) $12x^3 + 19x^2 - 59x + 79$

C) $4x^3 + 11x^2 - 35x + 61$

D) $12x^3 + 11x^2 + 35x - 61$

Select one:

- A
- B
- C
- D

Your answer is incorrect.

The correct answer is: A

Question 4

Not answered

Marked out of 1.00

4. A satellite company updated its prices for the upcoming year. To be provided with 30 sports channels and 55 political channels, the total price to be paid will be $100. In contrast, to be provided with 60 sports channels and 20 political channels, the price to be paid will be $110. How much does this company charge for each sports channel?

A) $0.5

B) $0.67

C) $1

D) $1.5

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: D

Question 5

Not answered

Marked out of 1.00

5. The energy stored in a capacitor can be called "electrical potential energy" and it is related to charge Q, voltage V on the capacitor, and the capacitance C of the capacitor. This energy is used mostly to preserve the memory of an item especially in regard to large capacitors. To find the value of the electrical potential energy that we will consider it as $PE_{electric}$, we apply the formula

$PE_{electric} = \dfrac{1}{2} C \times V^2$, with V

$= \dfrac{Q}{C}$ Which of the following

correctly expresses C in terms of Q and $PE_{electric}$?

A) $C = 2Q^2 \times PE_{electric}$

B) $C = \dfrac{2Q^2}{PE_{electric}}$

C) $C = \dfrac{PE_{electric}}{2Q^2}$

D) $C = \dfrac{Q^2}{2PE_{electric}}$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: D

Question 6

Not answered

Marked out of 1.00

6. What is the solution of

$$\frac{1}{x+1} - \frac{2}{3} = -\frac{2}{5} ?$$

A) $\frac{9}{2}$

B) $\frac{11}{4}$

C) $-\frac{11}{5}$

D) $-\frac{31}{16}$
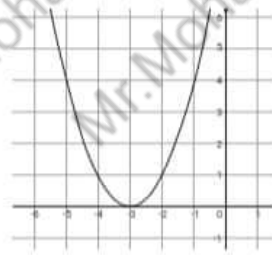
Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 7

Not answered

Marked out of 1.00

7. Which of the following functions represents the graph in the figure above?

A) $f(x) = x^2 + 3x + 9$

B) $f(x) = x^2 - 3x + 9$

C) $f(x) = x^2 + 6x + 9$

D) $f(x) = x^2 + 6x - 3$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 8

Not answered

Marked out of 1.00

8. $-3 + x = -2(3y - 5x)$

Which of the following equations represents the line perpendicular to the line with the equation above?

A) $y = -\dfrac{3}{2}x + \dfrac{1}{2}$

B) $y = \dfrac{3}{2}x + \dfrac{1}{2}$

C) $y = \dfrac{2}{3}x + 2$

D) $y = -\dfrac{2}{3}x + 2$

Select one:

○ A

○ B

○ C

○ D

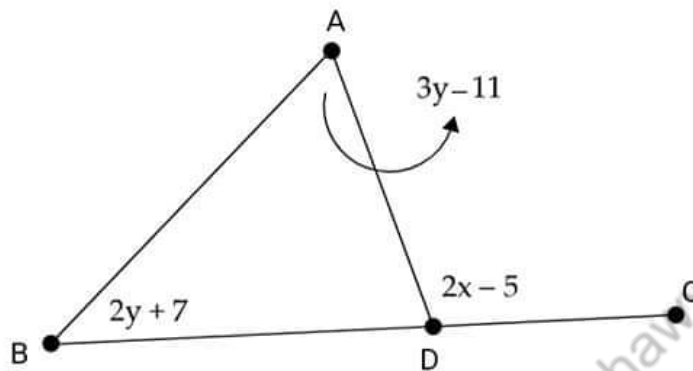Your answer is incorrect.

The correct answer is: D

Question 9

Not answered

Marked out of 1.00

9. Given the figure below, express y in terms of x.

A) $y = \dfrac{1}{5}(2x - 1)$

B) $y = 2x + 13$

C) $y = 2x - 1$

D) $y = \dfrac{1}{5}(2x + 13)$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 10

Not answered

Marked out of 1.00

10. If a, b, and c are three positive numbers such that $a - b = 12$ and $a - c = 9$, which of the following is correct?

A) $a < b < c$

B) $a < c < b$

C) $a > b > c$

D) $a > c > b$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: D

Question 11

Not answered

Marked out of 1.00

11. If $i = \sqrt{-1}$ which of the following is equivalent to $\dfrac{-3}{2-i}$?

A) $\dfrac{3}{5}(2+i)$

B) $-\dfrac{3}{5}(2+i)$

C) $-2-i$

D) $2+i$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 12

Not answered

Marked out of 1.00

12. Given $f(x) = 3x^2 - 2x$, and $g(x) = -3x$, which expression is the result of $(f \circ g)(-2y)$?

A) $108y^2 - 12y$

B) $-108y^2 + 12y$

C) $36y^2 - 12y$

D) $36y^2 - 6y$

Select one:

○ A
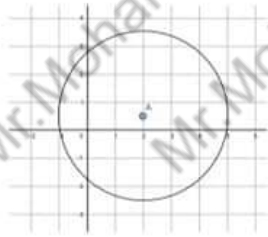
○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 13

Not answered

Marked out of 1.00

13. The graph above shows a circle of center A.Which of the following is the equation of the circle?

A) $(x + 2)^2 + (y + \frac{1}{2})^2 = 9$

B) $(x + 2)^2 + (y + \frac{1}{2})^2 = 3$

C) $(x - 2)^2 + (y - \frac{1}{2})^2 = 9$

D) $(x - 2)^2 + (y - \frac{1}{2})^2 = 3$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 14

Not answered

Marked out of 1.00

14. BMT is a right triangle at B with $BM = 3.1\ cm$ and $TM = 5.2\ cm$. What is the value of $\sin M$?

A) 0.8

B) 0.74

C) 0.59

D) 0.2

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 15

Not answered

Marked out of 1.00

15. What is the product of the roots of the equation $2x^2 + x - 10 = 0$?

A) -20

B) -5

C) -2.5

D) -2

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: D

Question 16

Not answered

Marked out of 1.00

16. A taxi company charges $0.25 for every one kilometer driven from the pick-up to the destination, with an extra $2.5 fixed fee for every one route. If Sebastian took a taxi from his home to work, and then again from work to his home, and paid a sum of $20, how many kilometers is his home away from work?

Answer: ☒

The correct answer is: 30

Question 17

Not answered

Marked out of 1.00

17. Given that the cube of a positive number is 150, what would be the value of the product of twice this number and its square?

Answer: [   ] ✗

The correct answer is: 300

Question 18

Not answered

Marked out of 1.00

18. Given the equation $2-|3b-2|=-4$, what is the greatest value of b ?

Answer: [   ] ✗

The correct answer is: 8/3

Question 19

Not answered

Marked out of 1.00

Started on	Friday, 12 January 2024, 9:53 AM
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Grade	**0.00** out of 38.00 (**0**%)

Question 1

Not answered

Marked out of 1.00

1. If $g(x) = -3x^2 + 3x - 5$,
and $h(x) = \frac{1}{2}x^2 - 4$, what is
the value of $|g(1) - 2h(-2)|$
?

A) -1

B) 1

C) 5

D) 7

Select one:

- A
- B
- C
- D

Your answer is incorrect.

The correct answer is: B

Question 2

Not answered

Marked out of 1.00

2. The Flatiron Building in New York City in the United States of America was built in 1902 even though the site was bought in 1857. The design of the building which was created by an American architect, had 21 floors with each floor having a shape of a right triangle such that one of the bases is equal to 180 meters, and the hypotenuse is equal to 195 meters. What is the area of one of the floors ?

A) $6750\ m^2$

B) $7312.5\ m^2$

C) $13500\ m^2$

D) $17550\ m^2$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 3

Not answered

Marked out of 1.00

3. A line and a parabola are defined respectively by the equations $y = -2x + 4$ and $y = x^2 - 4x + 5$. If they intersect, at what point(s) do they meet?

A) They intersect at $(1,2)$ and at $(2,1)$

B) They intersect at $(2,1)$

C) They intersect at $(1,2)$

D) They do not intersect

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 4

Not answered

Marked out of 1.00

4. At the beginning of 2019, the exchange rate from American dollars to Egyptian pound was 17.87 EGP for each one dollar. After 12 months, it changed to 16.05 EGP for each one dollar. Assuming that the exchange rate of each dollar was decreasing as a linear function during these 12 months, which function represents this decrease ?

A) $y = \dfrac{91}{600} x + 17.87$

B) $y = -\dfrac{91}{600} x + 17.87$

C) $y = -\dfrac{91}{550} x + 17.87$

D) $y = -\dfrac{91}{50} x + 17.87$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 5

Not answered

Marked out of 1.00

5. The original price of Ron's house is $180,400. In order to sell it, Ron asked the help of a broker who added an extra 3% to the price as his own commission. The person who bought the house paid $187,165 as he decided to give an extra gift to the broker. What percent of the original price was the gift given to the broker by the buyer ?

A) 3.75%

B) 1%

C) 0.75%

D) 0.6765%

Select one:
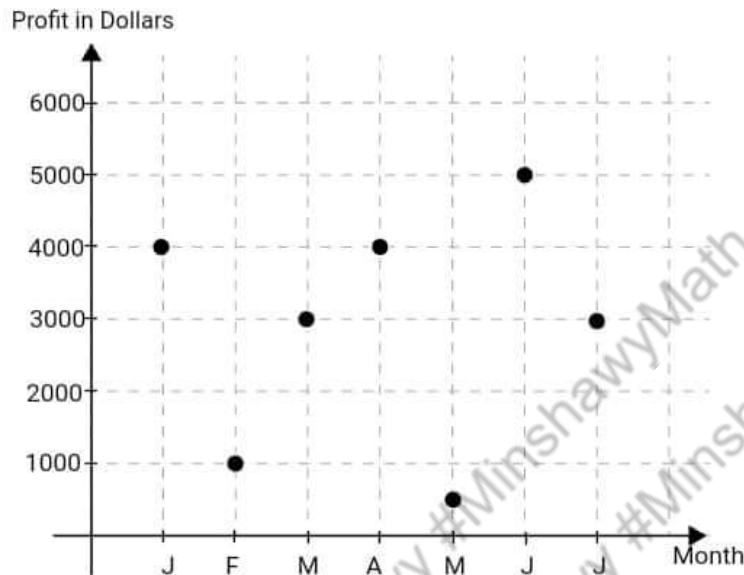
○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 6

Not answered

Marked out of 1.00

For questions 6-7, refer to the information below.

A company that produces and sells cotton clothes in Cairo, Egypt published their profit (in dollars), which they made during the first seven months of year 2020, on its website.

6. According to the graph, what is the average (arithmetic mean) of the profit made ?

A) 2562.5

B) 2928.57

C) 3000

D) 3416.67

Select one:

○ A
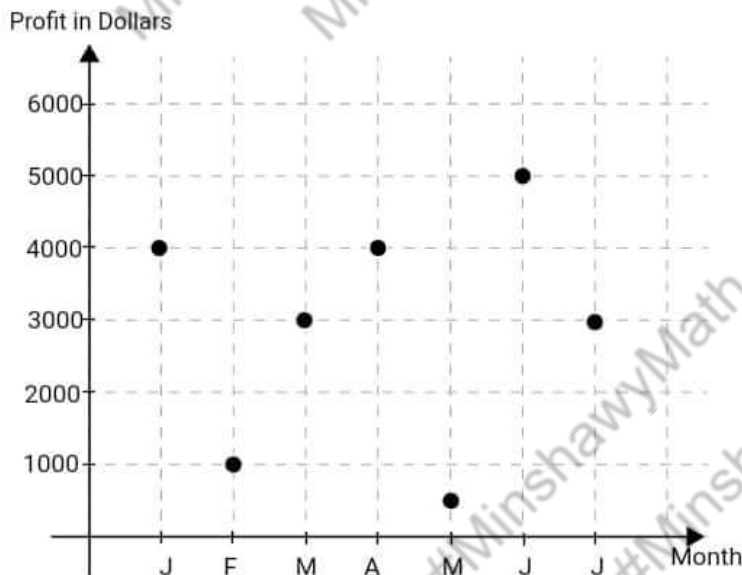
○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 7

Not answered

Marked out of 1.00

For questions 6-7, refer to the information below.

A company that produces and sells cotton clothes in Cairo, Egypt published their profit (in dollars), which they made during the first seven months of year 2020, on its website.

7. Between the beginning of May and the end of June, they produced only t-shirts (5000 t-shirts) with a cost of $10,122. In order to make the profit shown in the graph, what price should they sell each t-shirt for ?

A) $1.78

B) $2.7244

C) $3.1244

D) $3.8044

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 8

Not answered

Marked out of 1.00

8. $\begin{cases} -3y + 0.5x = 1 \\ -2.3x = -1.5 - 0.3y \end{cases}$

From the system of equations above which can be graphed in the xy-plane, what is the sum of the abscissa and the ordinate of the intersection of the two lines ?

A) $\dfrac{53}{135}$

B) $\dfrac{65}{141}$

C) $\dfrac{23}{27}$

D) $\dfrac{157}{5}$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 9

Not answered

Marked out of 1.00

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9. If $f(3) = 16$, and $f(-3) = 40$, which of the following represents the function f ?

A) $f(x) = 2x^2 - 2x + 4$

B) $f(x) = 2x^2 + 1$

C) $f(x) = -x^2 + 7x + 4$

D) $f(x) = 3x^2 - 4x + 1$

Select one:

- ○ A
- ○ B
- ○ C
- ○ D

Your answer is incorrect.

The correct answer is: D

Question 10

Not answered

Marked out of 1.00

10. The healthy BMI formula (Body Mass Index) is a simple calculation recommended by the World Health Organization (WHO) in order to have a person find his/her ideal body weight which, if respected, can control any possible health complications. The ideal BMI range is between 18.5 and 25 for both male and female, and it can be found using the formula = $\frac{m}{h^2}$, where m is the mass of the person in kilograms, and h is its height in m. For Jason whose height is equal to 201 cm, which of the following statements is ideal ?

Select one:

○ **A)** Jason can have a healthy life if his mass is between 60 and 74 Kg.

○ **B)** Jason can have a healthy life if and only if his mass is less than 101 Kg.

○ **C)** Jason can have a healthy life if his mass is between 75 and 101 Kg.

○ **D)** Jason can have a healthy life if his mass is more than 102 Kg.

Your answer is incorrect.

The correct answer is: **C)** Jason can have a healthy life if his mass is between 75 and 101 Kg.
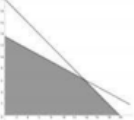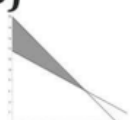
Question 11

Not answered

Marked out of 1.00

11. Christopher needs to save $250 for the new PlayStation he wishes to buy in a week. He went to work in a coffee shop where he is going to be paid $10 per hour. In addition, he accepted to help his father in carpentering for $18.5 per hour. However, he cannot work more than 20 hours this week due to his university schedule. Which of the following graphs will show the correct representation of this problem ?

Select one:

○ **A)**

○ **B)**

○ **C)**

○ **D)**

Your answer is incorrect.

The correct answer is:

B)
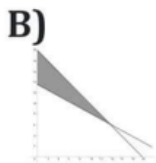
Question 12

Not answered

Marked out of 1.00

12. In a sports academy, the ratio of kids learning basketball to kids learning football is 8:10, while the ratio of kids learning football to kids learning ping-pong is 15:6. If there are 20 kids learning basketball, how many kids are learning ping-pong ?

A) 10

B) 12

C) 25

D) 40

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 13

Not answered

Marked out of 1.00

13. The chart below shows how many water bottles were sold by a large mineral water company.

	2010	2012	2014	2016	2018
Bottles of 0.5 L	1,024,987	1,130,187	1,235,387	1,340,587	1,445,787
Bottles of 1.5 L	2,467,000	2,369,500	2,272,000	2,174,500	2,077,000

Assuming that the rate of selling each bottle size will be the same every two years, which of the following statements is correct ?

I. Each year, the company sells 48,750 fewer bottles of 1.5 L than the previous year.
II. Every two years, the company sells 52,600 more bottles of 0.5 L.

III. As the linear graph representing the number of bottles of 0.5 L sold is increasing, the linear graph representing the number of bottles of 1.5 L sold will be constant.

A) I only

B) II only

C) I and III

D) II and III

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 14

Not answered

Marked out of 1.00

14. The Gross Domestic Produ
(GDP), is the total value of
goods produced in a country
while the GDP per capita refer
to the GDP of the country
divided by its total population
In Egypt, the GDP per capita fo
2008, 2016, and 2018 are
shown in the table below.

	2008	2016	2018
GDP per capita ($)	2,270	3,686	2,573

Which of the following could
verify the GDP per capita
growth in Egypt ?

Select one:

○ **A)** The GDP per capita
increased by 30.2% from
2008 to 2016 and
decreased back again by
62.38% from 2016 to
2018.

○ **B)** The GDP per capita
increased by 62.38% from
2008 to 2016 and
decreased back again by
30.2% from 2016 to 2018.

○ **C)** The GDP per capita
increased by 162.38%
from 2008 to 2016 and
decreased back again by
130.2% from 2016 to
2018.

○ **D)** The GDP per capita
increased by 130.2% from
2008 to 2016 and
decreased back again by
162.38% from 2016 to
2018.

Your answer is incorrect.

The correct answer is:
B) The GDP per capita
increased by 62.38% from
2008 to 2016 and
decreased back again by
30.2% from 2016 to 2018.

Question 15

Not answered

Marked out of 1.00

For questions 15-16-17, refer to the information below.

15. If we assume that the change in number of cars sold by this company is linear, which function will represent this change ?

Select one:

- **A)** $y = 3000x - 3,672,000$ (in thousands)

- **B)** $y = 3x - 3,672$ (in thousands)

- **C)** $y = -3000x + 3,672,000$ (in thousands)

- **D)** $y = -3x + 3,672$ (in thousands)

Your answer is incorrect.

The correct answer is: **B)** $y = 3x - 3,672$ (in thousands)

Question 16

Not answered

Marked out of 1.00

16. The production of cars
in 2018 cost the company
$39,303 millions. How
much each car should be
sold for during that year
so the company does not
make a loss ?

A) $16,500

B) $15,500

C) $14,500

D) $13,500

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 17

Not answered

Marked out of 1.00

17. If each car, regardless of its type or model, will make a profit of $3,455 for the company, how much more profit did the company make in 2019 than in 2018 ?

A) $10,365

B) $8,240,175

C) $10,365,000

D) $8,240,175,000

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 18

Not answered

Marked out of 1.00

18. Given the equations of two lines: $5x - 3y = -2$ and $2x - 3ky + 7 = 0$, what could be the value of k so that the two lines are perpendicular ?

A) $\frac{6}{15}$

B) $\frac{1}{4}$

C) $-\frac{9}{10}$

D) $-\frac{10}{9}$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: D

Question 19

Not answered

Marked out of 1.00

19. $6n^3 - 5n^2 - 83n + 28$ Which of the following cannot be a factor of the polynomial above ?

A) $n - 4$

B) $2n + 7$

C) $2n + 3$

D) $3n - 1$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 20

Not answered

Marked out of 1.00

20. What is the square of the sum of the reciprocals of the solutions of $6x^2 + 7x - 20 = 0$?

A) 0.12

B) 0.28

C) 1.36

D) 14.69

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: A

Question 21

Not answered

Marked out of 1.00

21. On a multiple choice questions test at school, Raheem answered 70% of the questions correct. If his final score is 64 given that for each correct answer he gets 1.25 points and for each wrong answer, 0.25 points is subtracted, how many questions were there in the test ?

A) 56 questions

B) 58 questions

C) 73 questions

D) 80 questions

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: D

Question 22

Not answered

Marked out of 1.00

22. The numerical value of the volume of a cylinder whose height equals 3.6 cm is equal to the numerical value of the area of a parallelogram whose height equals 6 cm, and the base equals 12.2 cm. What is the radius of the base of the cylinder ?

A) 1.79 cm

B) 2.54 cm

C) 3.23 cm

D) 6.47 cm

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 23

Not answered

Marked out of 1.00

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23. John wants to buy a new laptop. In the shop, they suggested the following different types of laptops: Lenovo, Dell, Asus, Apple, and Acer. In addition, one of the following processors can be chosen for each type: intel core i4, intel core i5, intel core i6, and intel core i7. When making a decision, how many ways can John choose his preferable laptop ?

A) 4

B) 5

C) 9

D) 20

Select one:

○ A

○ B

○ C

○ D

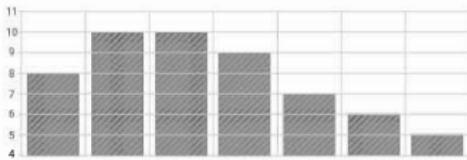Your answer is incorrect.

The correct answer is: D

Question 24

Not answered

Marked out of 1.00

For questions 24-25, refer to the information below.
The graph below shows how many eggs a chicken laid in a farm during a week.

24. From the chart, which of the following is true ?

A) The distribution of the data is negatively skewed.

B) The distribution of the data is symmetric.

C) The distribution of the data is positively skewed.

D) The distribution of the data is symmetric and positively skewed.

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 25

Not answered

Marked out of 1.00

25. What is the average of the sum of the mean and mode of the data shown ?

A) $\dfrac{125}{7}$

B) $\dfrac{125}{14}$

C) $\dfrac{111}{14}$

D) $\dfrac{55}{7}$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 26

Not answered

Marked out of 1.00

26. The two points $A(2,5)$ and $B(-1,-4)$ satisfy which inequality ?

A) $2x - 5y > -3$

B) $-3x + 2y \geq 1$

C) $5x - y \geq -2$

D) $-x + 3y < 10$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 27

Not answered

Marked out of 1.00

27. If $(m + 1)$ is inversely proportional to n^2, $n \geq 0$. If $m = 4$ when $n = \dfrac{2}{5}$, what would be the value of n if $m = 6$?

A) $\dfrac{\sqrt{35}}{35}$

B) $\dfrac{2\sqrt{35}}{35}$

C) $\dfrac{\sqrt{35}}{25}$

D) $\dfrac{2\sqrt{35}}{25}$

Select one:

  ○ A

  ○ B

  ○ C

  ○ D

Your answer is incorrect.

The correct answer is: B

Question 28

Not answered

Marked out of 1.00

For questions 28, 29, and 30, refer to the information below.

Ivana is driving her car on a straight highway. The table below shows a linear relation between her position and time.

Time (s)	4	6	8	10	12
Position (m)	9	13	17	21	25

28. To find the velocity of the car, we have to divide the displacement by the time

$v_{avg} = \frac{x_f - x_i}{t_f - t_i}$ with x_f being the final position for a certain period of time, and x_i the initial position, t_f represents the final time and t_i the initial time. Which formula represents t_i in terms of v_{avg}, x_f, x_i, and t_f ?

A) $t_i = v_{avg} \times \frac{x_f - x_i}{t_f}$

B) $t_i = t_f - \frac{x_f - x_i}{v_{avg}}$

C) $t_i = t_f + \frac{x_f - x_i}{v_{avg}}$

D) $t_i = v_{avg} \times \frac{t_f}{x_f - x_i}$

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: B

Question 29

Not answered

Marked out of 1.00

For questions 28, 29, and 30, refer to the information below.

Ivana is driving her car on a straight highway. The table below shows a linear relation between her position and time.

Time (s)	4	6	8	10	12
Position (m)	9	13	17	21	25

29. What can you say about the velocity of the data given ?

A) The velocity increases with time.

B) The velocity decreases with time.

C) The velocity is constant.

D) Nothing can be indicated from the data given.

Select one:

○ A

○ B

○ C

○ D

Your answer is incorrect.

The correct answer is: C

Question 30

Not answered

Marked out of 1.00

For questions 28, 29, and 30, refer to the information below.

Ivana is driving her car on a straight highway. The table below shows a linear relation between her position and time.

Time (s)	4	6	8	10	12
Position (m)	9	13	17	21	25

30. If Ivana kept driving with the same rate, what will be her position at $t = 27\ s$?

A) 55

B) 56.25

C) 57

D) 61

Select one:

- ○ A
- ○ B
- ○ C
- ○ D

Your answer is incorrect.

The correct answer is: A

Question 31

Not answered

Marked out of 1.00

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31. Given three consecutive odd integers, what is the greatest number if triple of the sum of thrice the third one and twice the first one is equal to 291 ?
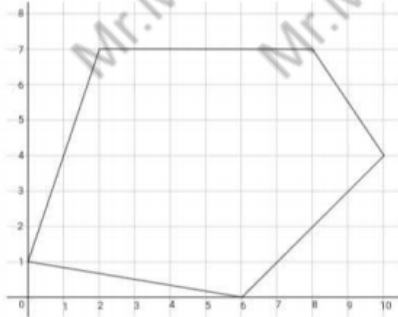
Answer: [   ] ✗

The correct answer is: 21

Question 32

Not answered

Marked out of 1.00

32. What is the area of the polygon in the graph below ?

Answer: [   ] ✗

The correct answer is: 32

Question 33

Not answered

Marked out of 1.00

33. One of the worldwide publishers designed an EST preparatory guide and decided to publish a new edition at the end of the third year. The first edition was sold for $10 in the bookstores, and its price decreased by 10% at the end of each year.
If one student decided to come to a bookstore at the launch of the second edition but decided to buy the old one, how much will he/she pay ?

Answer: [   ] ✗

The correct answer is: 7.29

Question 34

Not answered

Marked out of 1.00

34. If point $F(2 ; y + \frac{1}{12})$ lies on the line passing through (9, -2) and (-3, 5), what is the value of y ?

Answer: [   ] ✗

The correct answer is: 2

Question 35

Not answered

Marked out of 1.00

35. Given $g(y) = \frac{729}{64y^3}$, what will be the value of y if $g(y) = 27$?

Answer: [   ] ✗

The correct answer is: 3/4

Question 36

Not answered

Marked out of 1.00

36. $F(x) = 4x^2 - 24x + 99$
The function above represents the costs "F" of creating a LED folding eye lamp "x" by a small company per day. What is the minimum the company pays per week to produce these lamps ?

Answer: [   ] ✗

The correct answer is: 441

Question 37

Not answered

Marked out of 1.00

37. What is the smallest integer that satisfies the inequalities

$3 - 2n \le -14$ and $\frac{1}{2}n - 3 < 4$?

Answer: [   ] ✗

The correct answer is: 9

Question 38

Not answered

Marked out of 1.00

38. If $(2c - 3)^2 - (2c - 5)^2 = -12$, what is the value of c ?

Answer: [   ] ✗

The correct answer is: 1/2