ATI TEAS 7 Math Questions with Answers

1. A patient drives 19 miles one way to medical facility for treatment. How far does the patient drive round trip in 22 days of treatment?

o <mark>836 miles</mark>

o 1672 miles

o 418 miles

o 1254 miles

2. A family is planning a driving vacation and is estimating the cost of gasoline. While on vacation, the family plans to drive 3,000 miles. The car goes about 25 miles per gallon, and the cost of gasoline is $1.66 per gallon. Which of the following is the estimate for the cost if the gasoline for gasoline for the vacation?
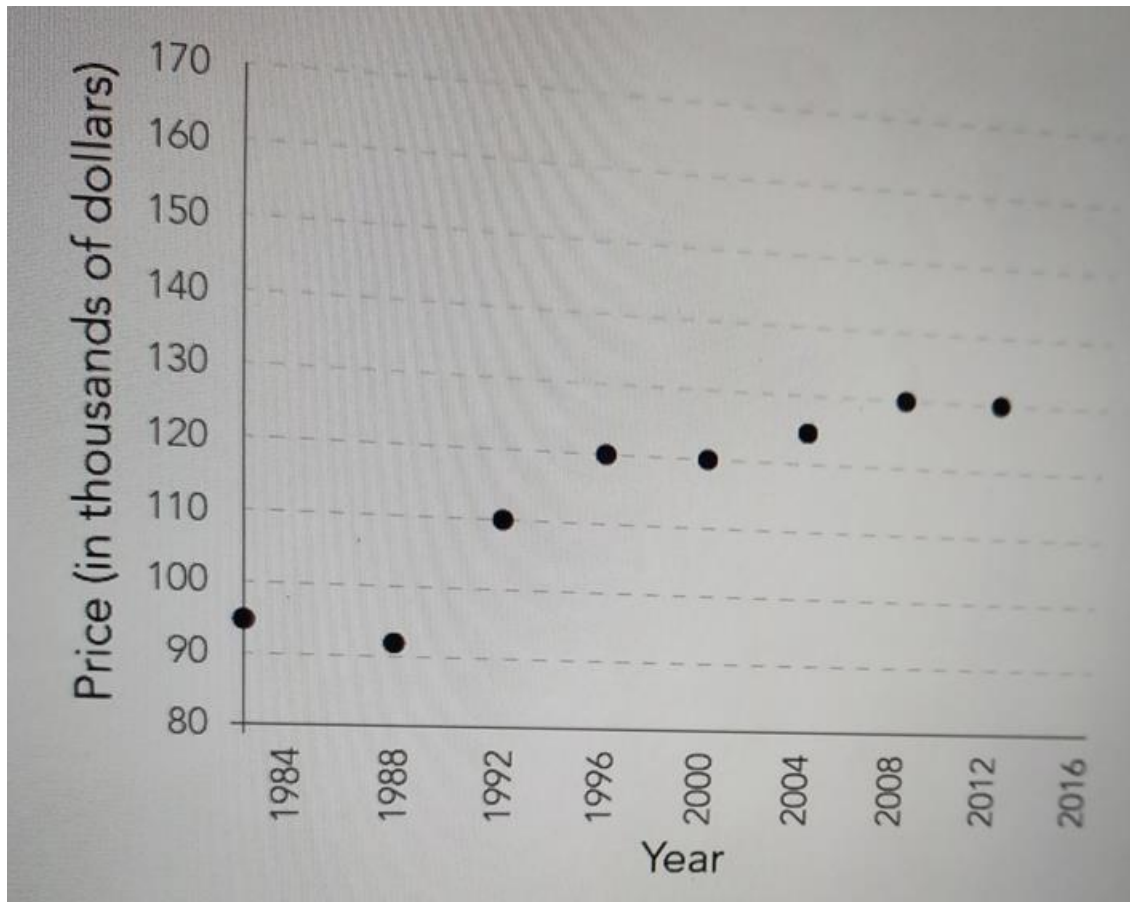
o $120.00

o $41

o <mark>$199.20</mark>

o $72.29

3. To determine the insurance premium of a car, an insurance company considers the following determinants the age of the car, the model of the car, and mileage of the car. Which of following is the dependent variable?

o <mark>Insurance premium</mark>

o Age

o Model

o Mileage

4. Graph indicating price in thousands of dollars and years between 1984 and 2016.

   Following the trend, the estimated average price of a home in 2016 would be

   ==$140,000.==

5. Simplify the expression below.

$(18x^5yz) \div (6xyz^4)$

$(3x^4y)/ z^3$

$3x^4yz^3$

$3x^4z^3$

==$(3x^4)/ z^3$==

6. Which of the following is the correct order of the numbers below from the least to greatest?

235.971, 145.884, -271.906, -193.823

-193.823, -271.906, 145.884, 235.971

145.884, -193.823, 235.971, -271.906

-271.906, -193.823, 145.884, 235.971

-271.906, 235.971, -193.823, 145.884

7. To rent tablecloths from a party rental vendor, there is an initial charge of $40. There is an additional charge of $5 per circular tablecloth and $3.50per rectangular tablecloth (r). which of the following equations represents the total cost (T) to rent tablecloths?

   o 5C +3.5r +40 = T
   o 5r +3.5 + 40 = T
   o 5C + 3.5r -40 = T
   o 5r + 3.5C – 40 = T

8. Four friends are sharing a pizza. One friend eats half of the pizza. The other three friends equally divide the rest of the pizza, what did each of the other three friends receive?

   o ¼
   o 1/6
   o 1/5
   o 1/3

9. An athlete can run 6 miles in 51 minutes. At this rate, how many miles could the athlete run in 1.5 hours?

o 15 miles

o 45 miles

o 11.5 miles

o **10.6 miles**

10. A bakery sells three varieties of muffins. On a recent morning, the bakery sold 41 blueberry muffins, 27 bananas nut muffins and 20 bread muffins. Estimate the total number of muffins sold.

o 70

o **90**

o 100

o 80

11. What is the product of 5/8 x 18/4? (round off to the nearest ten thousandth)

2.8125

12. A girl and her dog are playing tug of war with a piece of rope. The girl pulls on the rope with a force of 165 newtons (N) towards rhe east. The dog pulls with a force of 190 N toward the west. What is the net force on the rope

190 N towards the west

35 N towards the east

25 N towards the west

165 N toward the east.

13. A patient's temperature is recorded in degrees Fahrenheit every hour for 8 hr. the temperature in Fahrenheit were 99.0,99.2, 98.799.3, 99.7, 98.6, 100.0, and 99.0. what is the median temperature?

99 F

99.2˚ F

99.5˚ F

99.5˚ F

99.1˚ F

14. An employee discovers that 0.0025 of all products produced contains a defect. What's the number in percentage?

0.25%

25%

0.025%

15. Four hundred milligrams equals to how many grams?

o   0.00004 g

o   0.4 g

o   400.000 g

o   4 g

16. Arrange the following in order from the greatest to least.

265/100 ,20%, 270%, 2.6

270%, 265/100, 2.6, 20%

17. What is the area of the square that measures 3.1 m on each side?

○   12.4 m²

○   6.2 m²

○   9.61 m²

○   9.1 m²

18. Pat deposits $600 in savings account at a simple interest rate of 6% per year for 5
    years. How much money will Pat have earned in interest at the end of 5 years?

○ $95

○ $180

○ $36

○ $360

19. The hypotenuse (side C) of a triangle is 13 inches long. Which of the following pairs
    could be the correct measurements for the lengths of the other two sides of the
    triangle (note: $A^2 + B^2 = C^2$)

5 inches, 8 inches

5 inches, 12 inches

2.5 inches, 6 inches

2.5 inches, 4 inches

20. Which of the following is the appropriate estimate of 1 teaspoon?

○   5 L

○   5 Ml

○   0.5 L

○   50 L

21. A local law school reports that 74% of last year's graduates are employed by law firms, 3% work for the government and 2% work for non-profit organizations. The rest of the graduates work at jobs unrelated to law. Based on these outcomes, which of the following is the percentage of graduates working jobs unrelated to law?

- o   79%
- o   21%
- o   69%
- o   5%

22. Which of the following is the mean of the set data below?

30,29,28,30,24,12,26,33,25,23

- o   30
- o   26
- o   21
- o   27

23. Simplify $7x - 6 = 3x - 26$

Solve the equation above for x. which of the following is the value of x?

- o   -5
- o   5
- o   -8
- o   8

24. Which of the following values is the greatest?

o   4.4

o   4.25

o   10/3

o   9/2

25. Which of the following is the correct conversion of 2 3/4 yards into inches?

o   33 inches

o   99 inches

o   11 inches

o   75 inches

26. Using the numbers below, which of the following numbers is greatest

4/3, 27/20, 1.369, 1.357

27. A pudding recipe for 50 people calls for 4 cups of sugar. Each bag of sugar contains

6 cups. How many bags of sugar will be needed to make this recipe for 300 people?

24 bags

13 bags

4 bags

6 bags

28. A lab scale weighs 3 pounds, 5 ounces. Which of the following is the scales weight in

ounces (oz)

o   53 oz

o   29 oz

o   35 oz

- 41 oz

29. Which of the following is 3/8 divided by 5/12?

5/32

2/5

9/10

10/9

30. Which of the following is the value of x in the equation below?

4x -3 -5x = 24

- 3
- -27
- -6
- 21

31. The width of a rectangle is 4 inches (in) and the area of the rectangle is 32 in^2. which of the following represents the length of the rectangle?

8 in

28 in

128 in

36 in

1. Five less than twice a number

Which of the following translates the phrase above into mathematical expression?

- o   5x -2
- o   2 – 5x
- o   5 – 2x
- o   2x -5

2. Lana has $60. She spends 80% of the money. She then invests the remaining and earns a profit of 80%. How much money does she now have?

- o $9.60
- o $60
- o $86.40
- o $21.60

3. If a box of 35 syringes costs $560.00. Which of the following is the cost of the syringes?

- o $16.00
- o $8.00
- o $32.00
- o $15.00

4. A couple dining at a restaurant receives a bill of $38.40. They wish to leave a 15% gratuity. Which of the following is the estimated gratuity?

- o $5.00
- o $6.00
- o $ 7.00