

## **EST May 2025**

### **Math Questions**

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1) If the perimeter of an equilateral triangle is equal to 18, what is the area?

4) Two consecutive numbers, their product is **156**, what is their sum?

- a) 17
- b) 25
- c) 33
- d) 44

2)  $|3x-8| = -3$ , which of the following is right?

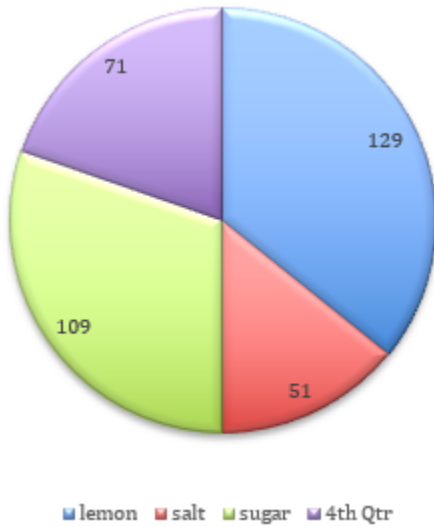
- a) One of the solutions is  $\frac{5}{3}$
- b) One of the solutions is  $\frac{11}{3}$
- c) It has infinite solutions

5) How many words can we make from the word ALGEBRA?

3) A box contains 24 balls, two thirds of them are red, 3 are green, and the rest are blue. What is the probability of choosing 2 balls randomly and they are red?

- a) 4070
- b) 6100
- c) 5040
- d) 7060

6) Ahmed used 300 grams of the ingredients. How much mg of salt did he use?



7) In the second time he used 20g of salt, how much mg of lemon juice is needed?

8) How many words can we make from the word **PHARMACY** if the two A's are with each other?

9) A school of 180 students had a physics exam, this is a graph with the grades



How many students got above 85?

10) Shabaan bought a laptop with 30% discount, he paid 2000\$, how much was it without the discount?

11) Hazem started a project with 7000\$ with X% benefits yearly, after 3 years he earned 7420\$, what is the value of x?

12) 30 is 26% of x, what is x?

- a) 140
- b) 150
- c) 160
- d) 180

13) A rectangle perimeter is 20 and its width is one fourth its length, what is its diagonal?

14) Tom is a basketball player, the chance of him getting three points from the first time is **0.6**, if he missed it, the second chance will be 0.3, what is the probability of him missing the two chances?

15)  $\sqrt{a} \times \sqrt[4]{a} \times \sqrt[3]{a^2} = \sqrt[12]{a^m}$  What is the value of m?

16) Which of the following is parallel to  $y=2x+3$ ?

- A.  $3y=6x+10$
- B.  $2y=7x-2$
- C.  $y=6x-4$
- D.  $4y+7=6x$

17) Which of the following is the slope of the line perpendicular to  $y = \frac{1}{2}x + 3$  ?

- a) 2
- b) -2
- c) 3
- d) -4

18) Line passes through the 2 points (8,3),(5,-3) with slope =  $\frac{k}{5}$  , what is the value of k?

19) A is inversely proportional with B, when  $A=3$  ,  $B=8$ , what is the value of B when  $A = -3$  ?

20) A line passes through  $6y-18=24$ , Which of the following is not true?

- a) The line passes through the point  $y=7$
- b) The line is horizontal
- c) Slope = zero
- d) The line is parallel to the y-axis

21) If  $2x-4=32$ , solve for x

22)  $-6x+2>74$  solve for x

- a.  $x < -10$
- b.  $x > 10$
- c.  $x < -12$
- d.  $x > 12$

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