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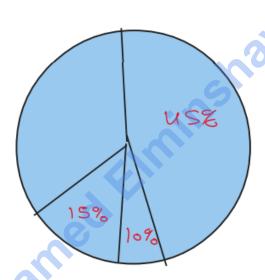
EST December 2024

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- Which of the following can be radicalized?
 - a. x
 - b. 2x
 - c. 3c
 - d. Can't be radicalized

Pie Chart representing a survey of 40 participants that were asked. How much did they consume snacks each evening?



- The major result was chocolate, how many participants ate chocolate?
- 3. The number of participants who chose fruit was the least and the biscuits was their 2nd choice, what is the number of those who chose fruit and biscuits.
- 4. How to modify this study?
 - a. should choose more teenagers in the participants.
 - b. choose more participants because 40 is not enough sample.
 - label the pie graph sectors.
 - d.

- 5. 5 people bought one pizza that cost 12\$, Ramzy will eat $\frac{1}{8}$ of the pizza, how much should he pay?
- 6. 5 people going to trips that cost 3625\$, two of the five decided not to go so the total cost decreased b 20% and each one of them will contribute 250\$ How much should each one of the 3 people who will travel pay more because of the apology of these 2?
- 7. 2% annual increase made profit of 210.08\$ after 2 years, what was the initial deposit?

A-5200

B-5300

C-5400

D-5600

8. Sum of 4 consecutive odd numbers with mean equal 14, what is the lowest of these numbers?

A-11

B-13

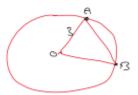
C-15

D-17

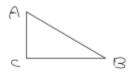
9. What is the slope of the line perpendicular to the line 3y+x=2?

 $x = 49^{6x-1}$ and $x = \frac{1}{b}$ what is the value of $\frac{b}{3}$?

11. The length of arc AB is 2π , What is the measure of the major arc AOB?



12. Triangle ABC is right angle triangle at C, If AC =16, $AC = \frac{AB}{2}$, What is the measure of $\prec ABC$?



- 13. What is true about this set of numbers? {**7**,**5**,**3**,**5**,**9**,**11**,**4**,**11**,**7**,**8**}
 - I Mean > Mode
 - II Range is sum $\frac{1}{2}$ mode and mean
 - III Mean > 5
 - a. I only
 - b I,II,III
 - c. I,II
 - d. II only

14. Which of the following must be true:

$$y = -6x^2 + 12x + 3$$

I concave up

Il positive axis of symmetry

III has a minimum value

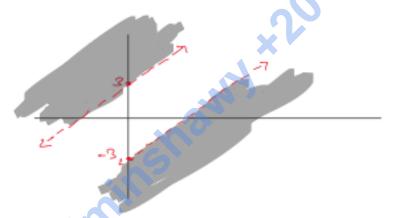
- a. II only
- b. I and II
- c. I only
- d. I,II, and III

The probability to rain is 0.22

- 15. What is the probability of it raining for 3 consecutive days?
- 16. What is the probability of it raining on the first day then not raining on the second day?

17.
$$64(7x^2y^3) = 2^m n^2 x^4 y^6$$
 and $m \le 4$, $m < n$ what is the value of $m + n$?

18. What is the inequality that describes this graph?



a.
$$|2x - y| > 3$$

b.
$$|2x - y| < 3$$

c.
$$|2x + y| > 3$$

d.
$$|2x + y| < 3$$

19. if $x = b^6$ and $y = b^5$, What is the value of $(xy)^{12}$?