

Name _____ Quarter 3 Date: _____ Subject: Math
 Revision Worksheet Grade: 11 Section _____ Teacher's Name: Mr. Mesfin

1. The age distribution of students in a certain class is given below:

Age	10 - 12	13 - 15	16 - 18	19 - 21	22 - 24
NO. of students	5	3	4	3	5

What is the mean age of the distribution?

2. What is the third quartile of the data 22,30, 10,6,26,43,47,39,32 ?
3. .What is the third decile of the data 22,30, 10,6,26,43,47,39,32 ?
4. What is the seventy fifth percentile of the data 22,30, 10,6,26,43,47,39,32 ?
5. What is the seventh decile of the data 22,30, 10,6,26,43,47,39,32 ?
6. What is the twenty fifth percentile of the data 22,30, 10,6,26,43,47,39,32 ?

7. Which are the measure of variation?

8. A bag contains 4 red balls, 3 blue balls and 2 white balls. Two balls are drawn one after the other ,without replacement .What is the probability that both are blue?

9. Different five character codes are to be generated in such a way that first two are from the English capital letters (A to Z) the remaining three are from the digits (0,1,2,-----,9). How many such different codes can be generated?
10. Expand $(x - 1)^8$
11. what is the seventh term Of $(w - x)^{14}$
12. A commite of 5 people is to be chosen from a group of 12 people - 6 women and 6 men .In how many ways can the committee be chosen to include exactly 3 men ?
13. IN how many ways can the letters of MISSISSIPPI be arranged?
14. simplify $\frac{12!}{3!2!4!2!}$
15. How many permutations are there of all the lettrs in the word COMBINE?

16. Find the value of r if $C(18,r)=C(18,r+2)$
17. if $C(n,3)=C(n,5)$ Find the value of $C(2n,2)$
18. In how many different ways can 5 student 5 student be seated in a row of 5 chair?
19. find the coefficient of x^{18} in the expansion of $(ax^4 - bx)^9$
20. A box contains 5 red, 3 white and 4 blue balls if 3 balls are selected at random Find the probability that
- all red
 - all white
 - all the balls are different colour
 - two are red and one is blue
21. If a pair of dice is thrown twice .Find the probability that the sum of the top
- 7
 - 5
 - greater than 10
 - either 6 or 10
 - neither 6 nor 10
 - 11

Work out show all necessary steps

- What is the inverse of the relation $R=\{(x,y):y\leq-x+7 \text{ and } y>3x-2\}$?
- what is the domain of the relation $R=\{(x,y):y\leq-x^2 \text{ and } y\geq-9\}$?
- If f is a function defined by $f(x) = x \operatorname{sgn} x$, then the value of $f(-2.3)$ is:
- Draw the graphs of the following (find domain and range)
 - $f(x) = 2x + |x|$
 - $f(x) = |x| + 1$
- What is the focus of the parabola $y^2+4y+8x=4$

6. what is the equation of parabola with vertex at (1,2) and directrix $x=0$?

7. Given the equation of the ellipse $\frac{[(x+6)]^2}{36} + \frac{[(y+3)]^2}{4} = 1$, then find

Center

Foci

End points of major axis

End points of minor axis

e)eccentricity

Length of latus rectum

Distance between foci

Parents/Guardians signature _____

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