Grade 9 Mathematics Covid-19 -Weekly School	
December -1 st Week	Prepared by:W.L.G.A.N. Kalhari R/Nivi/ Elapatha M.V.
01. Write $3x^{-4}$ with positive indices.	
02. Factorize. x(y+5)+7(y+5)	
03. Fine the value of X .	120 ⁰
04. Simlify. $\frac{3}{7} \div \frac{9}{28}$ of $\frac{10}{18}$	
05. Write the relationship between the sides of	^c triangle ABC using Pythagorean relation.
06. Expand . (x+6)(x+3)	1

07.If a person walked 800m distance in 4 minutes at a constant speed , find the distance walked in 10 minutes.	
08. Solve. $\frac{x}{12} = \frac{1}{6}$	
09. A vendor buys a radio at Rs. 6000 and sells it at Rs. 7800 . Calculate the profit percentage .	
10. Find the values of x and 2x .	
2x x	
11. Simplify. 1101_{two} + 1010_{two}	
12. Make m the subject in the formula y=mx+c .	
13. Find the distance moved during one full rotation of a wheel of radius 14cm .	
14. When a certain number is rounded off to the nearest 10 , the number 60 is obtained . Find the least and the greatest value that this number can take.	
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15. Factorize and then find the value of the expression $99^2 - 1$.

16. Find the value of 5p - 9q when p = 5 and $q = -\frac{1}{6}$.

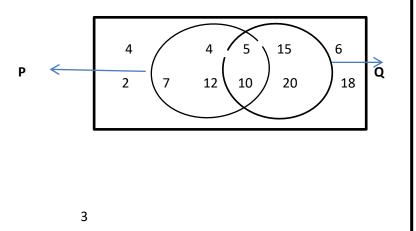
17. The population of a certain city is **857995**. Write this number in **scientific notation**.

18. Write the **equation** of the graph.

19. Write the general term of the number pattern $\, {\bf 35}$, ${\bf 32}$, ${\bf 29}$, ${\bf 26}$,... .

20. Considering the Venn diagram, write the elements of the sets given below,

- i. **P**∩**Q**
- ii. **P**∪ **Q**



m = 5

х

y 1

0

21. Find the probability of getting an **odd number** when an **unbiased** cubic die with its faces numbered **1 to 6** is rolled.

22. 'An exterior angle of a regular polygon is 70°'. Is this statement true or false ? Give reasons.

23. How many seconds is $\frac{3}{5}$ of 1 minute ?

24. The capacity of a water tank is **3m³**. Express it in **litres**.

25. Show that the circumference of a circle with its radius **2r** and the circumference of a circle with its radius **4r** is **1:2**.