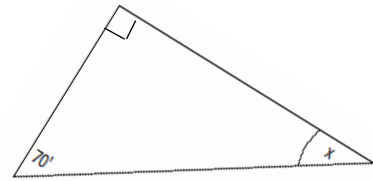


Grade 09
Mathematics
4th Week (November)

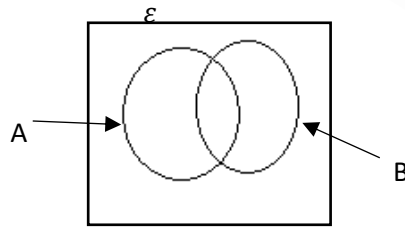
1. Write the number 354.25 in scientific notation

2. Find the value of X



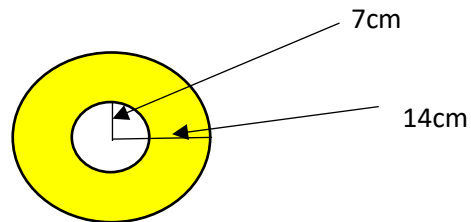
3. Factorize $X^2 + 6X + 8$

4. Shade the region $(A \cap B)^c$



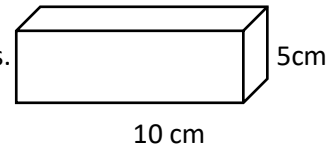
5. Find the median of the set of data 5,6,8,9,6,8,7,

6. Find the area of the shaded region



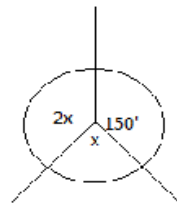
7. Expand the simplify $5(a - 2b) - 3(a - 4b)$

8. Find the volume of the following cuboid in cubic Centimeters.



9. If the price of a newspaper increased from 50 to 60 Express the increased value as a percentage of the initial value.

10. Find the value of X



11. Find the value of $5^3 \div 5^2$

12. How many bottles of 30 ml can be filled with a liquid of Medicine 1.8l

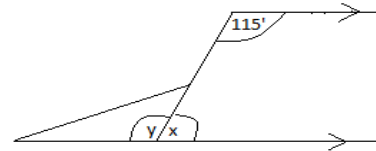
13. If a vendor incurs a loss of 10% by selling a wrist watch for Rs 1800. Calculate its purchase price.

14. Simplify $\frac{X}{4} + 4 = 14$

15. Simplify $1110_{\text{two}} + 11_{\text{two}}$

16. The circumference of a circle is 44m .find its diameter($\pi = \frac{22}{7}$)

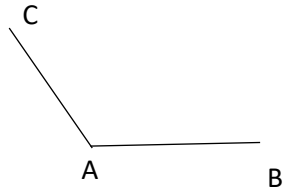
17. Find the value of X and Y in the diagram given below.



18. Indicate the order in which the keys of the calculator need to be pressed to obtain the correct answer.

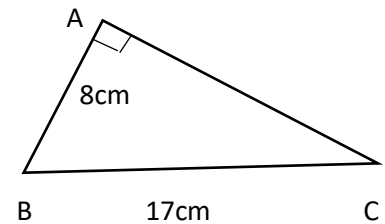


19. Construct the loci of point D which is equidistance to line AB and AC,



20. Make t the subject of the formula. $V = u + at$

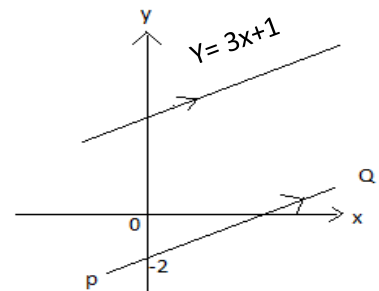
21. Find the length of the side AC in the triangle ABC.



22. If the general term of a number pattern is $3n - 1$. Find the first two terms of it.

23. If the price of 8 kg of rice is Rs 680.Find the price of 3 kg of rice.

24. Write the equation of the line PQ .



25. fill in the blanks. $\frac{X}{Y^{-3}} = \frac{Y^2}{\square^2}$