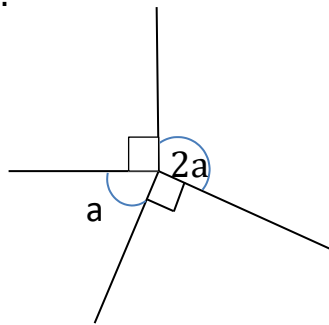


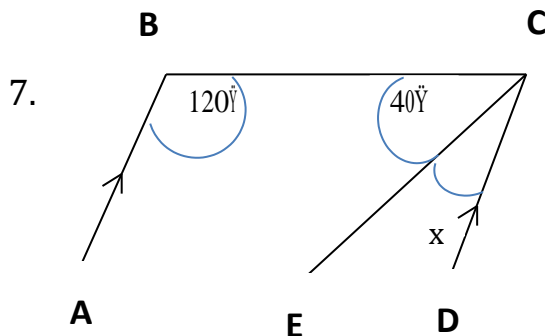
Subject- Mathematics

August-4th week

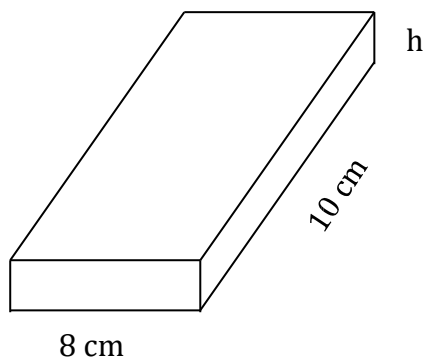
- Find the 10th term of the number pattern 3,5,7,9,.....
- Fill in the blank $1101_{\text{two}} + \dots\dots\dots_{\text{two}} = 11100$
- Simplify $6+5 \times \frac{3}{5}$
- Amal buys a product worth Rs 12000 from a shop that offers a 10% discount. How much is received Amal as the discount?
- If $X = \frac{2}{3}$ and $y = -\frac{1}{2}$, find the value of $3x-2y$
-



Find the value of a

Find the value of $\angle DCE$ angle.

- The length and width of a cuboid shaped container are 10cm and 8cm respectively. If the capacity of that container is 400ml, find the value of h.



9. If a motor vehicle moving at a constant speed travels 8km in 10 minutes, calculate the distance it travels in 45 minutes.

10. Express the following numbers given below in scientific notation, in general notation.

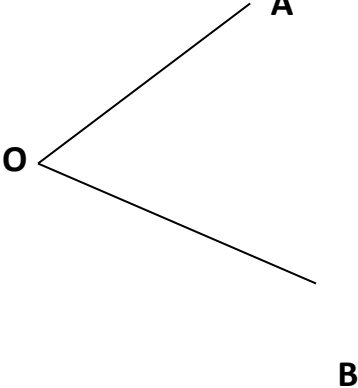
i. $8.533 \times 10^2 = \dots\dots\dots$

ii. $8.533 \times 10^{-2} = \dots\dots\dots$

11. Find the value of $\{(-3^2)\}^4$

12. The diameter of sphere is 8.521cm .Round off this value to the nearest first decimal place.

13.



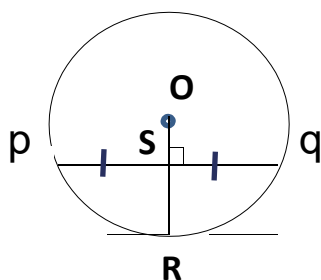
construct the locus of points equidistant from two straight lines OA and OB

14. If the sum of two numbers is 10 and their difference is 2, find those two numbers.

15. Make s the subject in the formula $v^2 = u^2 + 2as$

16.

If the length of OS is 3cm and the radius of the circle is 5cm, find the length of chord PQ.



17. Fill in the blank. $5 : \square = 15 : 9$

18. factorize. $m^2 - 49$

19. If $(x+a)(x+5) = x^2 + bx + 15$, find the value of a and b.

20. Find the gradient and the intercept of the graph $2y - 3 = 6x$