Grade 9

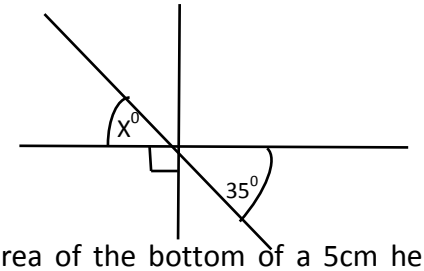
Mathematics

Covid -19 – weekly school

August 1st week

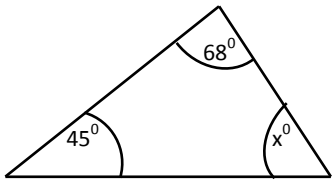
For the following 1,2 problems, use the ✓ marks if the statement is correct and the ✗ marks if it is incorrect.

1. The common difference of the number pattern 3,7,11,15 is 4 [ ]
2. The common difference of the number pattern 45,42,39,36,….. is -3 and the pattern gradually decreases [ ]
3. Fill in the blank. 1011_{two} = [ ]$_{ten}$
4. Fill in the blank. [ ]$_{two}$ = 27_{ten}
5. Find the value of (5x3) + 2x7.
6. Sunil who sells tow shirt for Rs.3000, says he made a profit of Rs.5000 after selling 10 shirts. Find the profit percentage he gets after the trade.
7. Expand and simplify. (x+3) (x-2).
8. Factorize. $X^2 + 5x + 6$
9. Explain whether the statement is right or wrong using axioms. 5*l* +250 m*l* = 5*l* + 250cm^3
10. Find the value of x



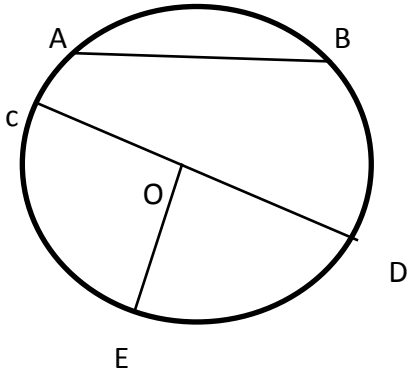
11. What is the area of the bottom of a 5cm height container with a value equal to the volume of a container 15cm length, 7cm width and 3cm height?
12. What is the answer for 14 + 15 x 10 ÷ 10 using ordinary calculate?
13. Express the number 1 305 403 in scientific notation.
14. What are the fore basic loci? Write a description.
15. Solve the equation. 2(x+ 5) = -2

16. Find the value of x .



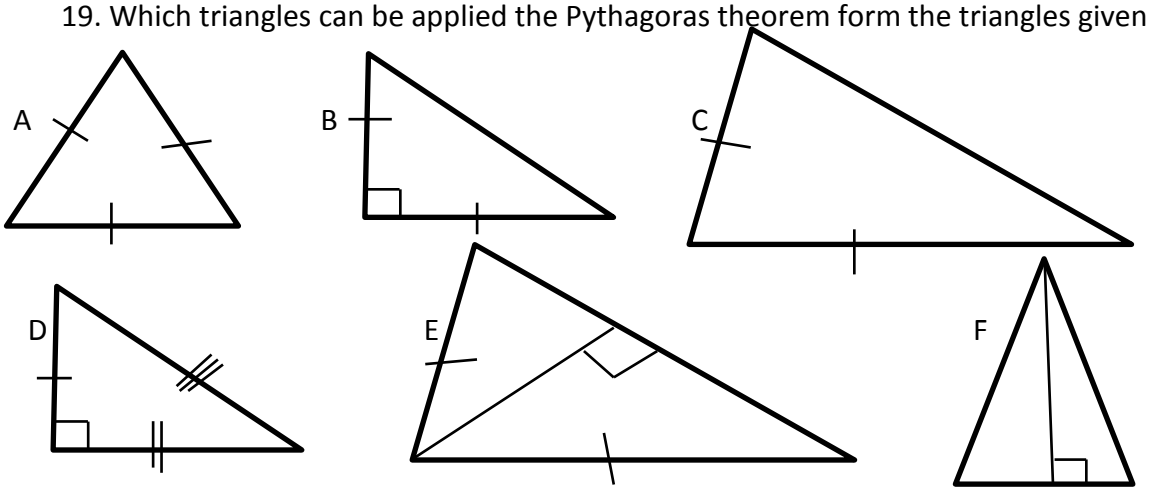
17. Make a the subject in the formula v = u + at

18. Name the parts shown in the figure below.



O	center
AB	
	Radius
CD	

19. Which triangles can be applied the Pythagoras theorem form the triangles given below ?



20. Find the gradient of the graphs.

Y =x , y = 2x , and y = 1/2x , .