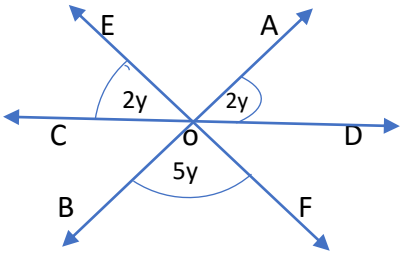
ST.THOMAS SCHOOL,INDIRAPURAM
WORKSHEET-JANUARY (2020)
CLASS-IX MATHEMATICS
Date of submission:-24-01-2020

	(Q-1 to 10) Multiple choice answers
1.	Which one of the following is an irrational number:- a. $\sqrt{4}$ b. $3\sqrt{8}$ c. . $\sqrt{100}$ d. $-\sqrt{0.64}$
2.	The degree of $4- y^2$ is: a. 0 b. 1 c. 3 d. 2
3.	The value of $p(y) = y^2 – y + 1$ for p(0) is: a. 4 b. 3 c. -2 d. 1
4.	Point (0, 4) lies on the: a. I quadrant b. II quadrant c. x-axis d. y-axis
5.	Solution of the equation 2x + 1 = x + 3 is: a. 3 b. 1 c. 2 d. 4
6.	The angle which is five times its supplement is: a. 150^0 b. 180^0 c. 90^0 d. 360^0
7.	In the given figure, AB, CD and EF are three lines concurrent at 0.The value of y is: a. 30^0 b. 20^0 c. 40^0 d. 60^0 
8.	The point of intersection of all medians of a triangle is: a. orthocentre b. incentre c. circumcentre d. centroid
9.	ABCD is a parallelogram and its diagonals AC and BD intersect at the point O. If area of ΔOBC is $6cm^2$, then the area of parallelogram ABCD is a. $48cm^2$ b. $24cm^2$ c. $12\ cm^2$ d. $36\ cm^2$
10.	In Δ ABC, if ∠C > ∠B, then a. AC >AB b. AC = AB c. AB >AC d. none of these
	Fill in the blanks
11.	If the volume of a cube is 216cm3, then its edge is _____cm.

12.	The diameter of a sphere whose surface area is 346.5 cm^2 is_____
13.	The median of first ten multiples of 3 is_____
14.	Class mark of 150 – 160 is_____
15.	A card is drawn at random from a well shuffled pack of 52 cards. The probability that the card drawn is a red card is _____.
16.	If the angles of the triangle are in the ratio 2 : 4 : 3 , then find the smallest angle of the triangle.
17.	If (2, 1) is a solution of the linear equation 3x - 4y = k, then find the value of k.
18.	Find the value of **:-** $x^{a-b} \times x^{b-c} \times x^{c-a}$
19.	Diagonals AC and BD of parallelogram intersect at O. If ∠ BOC =90°, ∠ BDC=50°, then find ∠OAB
20.	What is the area of an equilateral triangle with side 2√ 3cm.