

# GURU GOBIND SING PUBLIC SCHOOL

Sec – V, B.S. City

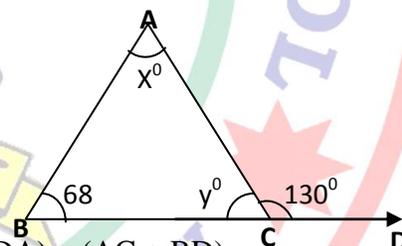
## WINTER VACATION HOLIDAY HOME WORK

CLASS – VII

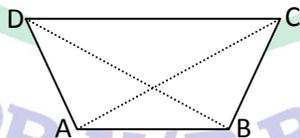
SUB : - MATHS

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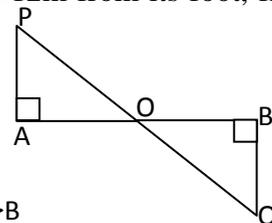
1. The Product of two decimals is 261.36. If one of them is 17.6, Find the other.
2. Subtract 15.079 from 24.16
3. Simplify :  $-x(x+4) + 3x(2x^2 - 1) + 4x^2 + 4$ .
4. Simplify :  $-(5x-3)(x+4) - (2x + 5)(3x-4)$
5. Subtract the sum of  $(8a - 6a^2 + 9)$  and  $(-10a - 8 + 8a^2)$  from  $-3$
6. A train covers a distance of 51km in 45 minutes. How long will it take to cover 221 km?
7. If 15 oranges cost rupees 110. What do 39 oranges cost?
8. A military camp has provisions for 630 men to last for 25days. How many men must be transferred to another camp so that the food lasts for 30 days.
9. In an examination, 72% of the total examinees passed. If the number of failure is 392. Find the total number of examinees.
10. If 3% of  $x$  is 9, Find the value of  $x$ .
11. The price of a shirt is reduced by 12% in a discount sale. If its present price is ₹ 1188. Find its original price.
12. The selling price of 12 pens is equal to the cost price of 15 pens. Find the gain percent.
13. Mohit sold a watch to Karim at a gain of 10% and Karim sold it to Rahim at a gain of 4%. If Rahim pays ₹ 14300 for it, for how much did Mohit purchase it?
14. Find the simple interest and the amount when : Principal = ₹ 6400, rate = 6% p.a and time = 2 years.
15. A Sum of money lent at simple interest amounts to rupees 783 in 2 years and to rupees 837 in 3 years. Find the sum and rate percent per annum.
16. Find the angles of triangle which are in the ratio 2:3:4.
17. Prove that the sum of the angles of a triangle is  $180^\circ$ .
18. Find the value of  $x$  and  $y$ .



19. ABCD is a quadrilateral. Prove that  $(AB + BC + CD + DA) > (AC + BD)$



20. A tree is broken by the wind but does not separate. If the point from where it breaks is 9m above the ground and its top touches the ground at a distance of 12m from its foot, find out the total height of the tree before it broke.

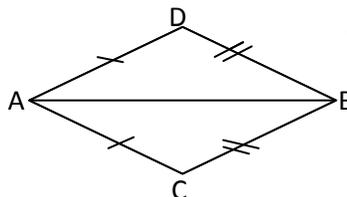


21. In the given figure,  $PA \perp AB$ ,  $QB \perp AB$  and  $PA = QB$ , Prove that

i)  $\Delta OAP \cong \Delta OBQ$

ii)  $OA = OB$

22. In the adjoining figure.  
 $AB = AD$  and  $CB = CD$ .  
 Prove that  $\Delta ABC \cong \Delta ADC$



23. Construct a  $\Delta ABC$  in which  $AB = 3.8$  cm,  $\angle A = 60^\circ$  and  $AC = 5$  cm.

24. Construct a  $\Delta ABC$  in which  $AB = 7\text{cm}$ ,  $\angle A = 45^\circ$  and  $\angle C = 75^\circ$ .  
25. Construct a  $\Delta ABC$  in which  $BC = 4.8\text{ cm}$ ,  $\angle C = 90^\circ$  and  $AB = 6.3\text{ cm}$ .  
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