

**GURU GOBIND SINGH PUBLIC SCHOOL**  
**SECTOR – V/ B, B.S.CITY**  
**WINTER VACATION HOLIDAY ASSIGNMENT (2019-2020)**

**CLASS: 6**

**MATHS**

1. Solve the equation and verify the answer:  
(a)  $5x-3=x+17$ . (b)  $4x+7=15$
2. Verify by substitution that the root of  $3x-5=7$  is  $x=4$
3. If 11 is subtracted from 4 times a number, the result is 89.find the number.
4. The length of a rectangular park is thrice its breadth. If the perimeter of the park is 168 metres. Find its dimensions.
5. Deepak is twice as old as his brother Vikash. If the difference of their ages be 11 years. Find their present ages.
6. Express the ratios in the simplest form :  
(a) 40:25. (b) 4kg to 750g
7. The ratio of the length of a field to its width is 5:3.find its length if the width is 42 metres.
8. Divide Rs 3450 among A, B and C in the ratio 3:5:7.
9. Find the value of x :-  $x:92::87:116$
10. The 1<sup>st</sup>, 3<sup>rd</sup> and 4<sup>th</sup> terms of a proportion are 12,8 and 14 respectively. Find the 2<sup>nd</sup> term.
11. If the cost of a dozen soaps is Rs 285.60.What will be the cost of 15 such soaps?
12. A labourer earns Rs 1980 in 12 days.  
(a) How much does he earn in 7 days?  
(b) In how many days will he earn Rs 2640?
13. The cost of 18 chairs is Rs 22770.How many such chairs can be bought for Rs 10120?
14. Draw a line segment  $AB=6\text{cm}$ .Take a point C on AB such that  $AC=4\text{cm}$ .From C, draw CD is perpendicular to AB.
15. Draw a line segment  $PQ=6\text{cm}$ .Draw the perpendicular bisector of PQ.
16. Draw a line AB. Take a point P on it.Draw a line passing through P and perpendicular to AB.
17. Construct the following angles using a pair of compasses:  
(a)  $150^\circ$  (b)  $75^\circ$  (c)  $45^\circ$
18. Draw an angle of  $60^\circ$ ,using pair of compasses. Bisect it to make an angle of  $30^\circ$ .
19. The measures of two angles of a triangle are  $72^\circ$ and  $58^\circ$ .Find the measure of third angle.
20. One of the acute angles of a right triangle is  $50^\circ$ .Find the other acute angle.
21. Draw a Parallelogram ABCD in which  $AB=6.5\text{cm}$ , $AD=4.8\text{cm}$  and angle  $BAD=70^\circ$ .Measure its diagonals.
22. Two sides of Parallelogram are in the ratio 4:3.If its perimeter is 56cm. Find the length of its sides.
23. Draw a circle with centre O and radius 4cm. Draw a chord AB of the circle. Indicate by marking points X and Y, the minor arc AXB, and the major arc AYB of the circle.
24. Draw a circle with centre O and radius 3.7cm.Draw a sector having the angle  $72^\circ$ .
25. Draw any 3 polygons with their names.

x-----x-----x