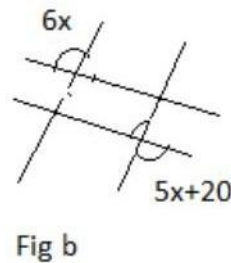
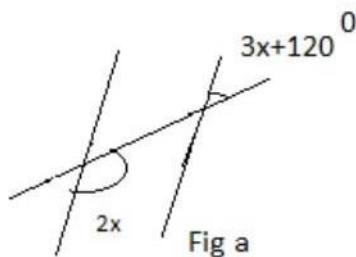


## ICSE Class 8 Maths Important Questions

1. Anil has 5Rs, 2Rs and 1Rs coins in the ratio 1:2:5 by numbers, if the total value of all the coins be Rs 35.2; find the number of each type of coins.
2. The perimeter of a triangle is  $8y^2 - 9y + 6 = 0$  and its two sides are  $4y^2 - 7y$  and  $4y^2 + 14$ , find its third side.
3. If  $a + b = 8$  and  $ab = 15$ , find  $a^3 - b^3$
4. Factorise  $10 + 6(a + b) - 5(a + b)^2$
5. Given the universal set  $U = \{-7, -3, -1, 0, 5, 6, 8, 9\}$  find  
 $A = \{x : x < 2\}$       b)  $B = \{y : y = 2n + 3, n \text{ belongs to } \mathbb{N}\}$
6. State the statements of inequalities.
7. Find the two consecutive even natural numbers such that the sum of their squares is 62.
8. For what value of  $x$  the lines will be parallel to each other



9. Prove that the angles of a triangle are equal to two right angles.
10.
  - a) The simple interest on a certain sum of money is of the sum in 4 years. Find the Rate percentage charged.
  - b) Calculate the difference between the compound interest and simple interest on Rs 9500 in three years and a 15% per annum.
11. Two pipes take  $x$  minutes and  $(x + 3)$  minutes respectively to fill a cistern in 7 minutes, find the value of  $x$ .
12. Solve and graph the equation set on a number line:  
 $5x + 6 > 8x - 16; x \in \mathbb{N}$
13. Construct an isosceles right angled triangle whose hypotenuse is 7.5 cm. b)  $AB = BC = CA$  and the altitude  $AD = 5\text{cm}$

14. Prove that the diagonals of a parallelogram bisect each other.
15. An exterior and an interior angle of a regular polygon are in the ratio 3:6. Find the number of sides in the polygon.
16. An empty cistern can be filled by two pipes A and B in 20 minutes respectively and the full cistern can be emptied by a third pipe C in 10 minutes. If all the pipes are turned on at the same time, in how much time will the empty cistern be full?
17. The price of a pen is increased by 35%. By what percent must the shopkeeper finally reduce the price to bring the price back to the initial price of 250 Rs?
18. Solve and plot the graph
- $2x - 3y = -6$
  - $2x - y = 7$
19. In a parallelogram, prove that opposite sides are equal, opposite angles are equal and each diagonal bisects the parallelogram.
20. Construct a quadrilateral ABCD; IF  $AB = 6\text{cm}$ ,  $BC = 6\text{cm}$ ,  $AD = 4\text{cm}$  and  $\angle BCD = 75^\circ$