RAMAGYA SCHOOL, NOIDA

WORKHEET, 2018-2019

SUBJECT: MATHEMATICS

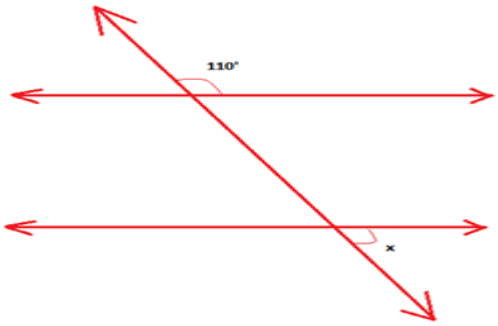
CLASS: VII MONTH: SEPTEMBER

(Concept)

1. The angles in a right-angled triangle other than the right angle are
   a. acute b. obtuse c. right d. none
2. The sum of angles on the same side of the transversal is _____
   a. 180° b. 270° c. 360° d. 90°
3. A ray has _____end points.
   a. 1 b. 2 c. 3 d. no
4. The common end point where the two rays meet is called
   a. Arms b. vertex c. ray d. 0

(Application)

5. The complementary angle of 30° is
   a. 60° b. 90° c. 150° d. none
6. Choose a pair of complementary angles
   a. 30°,50° b. 76°,14° c. 65°,65° d.120°,30°
7. The angle between two perpendicular line is _____.
   a. 30° b. 60° c. 90° d. 180°
8. If AOB is a straight line and OC is a ray from and ∟AOC=134°, then ∟COB=
   a. 46° b. 56° c. 120° d. 66°
9. In the given figure l is parallel to m, t is a transversal. Then value of x is

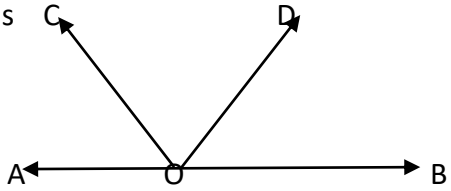


a.110° b.70° c.120° d. 60°

(HOTS)

10. The sum of an angle and one third of its supplementary angle is 90°. The measure of the angle is
    b. 135° b. 120° c. 60° d. 45°
11. Two complementary angles are in the ratio 2:3. The measure of the larger angle is
    b. 60° b. 54° c. 66° d. 48°
12. The measure of an angle which is its own complement is
    a. 30° b. 60° c. 90° d. 45°

13. AOB is a straight line such that <AOC=(3x+10)°, <COD=50° and <BOD=(x-8)°. The value of x is



a. 32 b. 36 c. 42 d. 52

14. <A is an obtuse angle. The measure of <A and twice its supplementary differ by 30°. Then <A can be

a.150° b. 110° c. 140° d. 120°

15. Two supplementary angles are in the ratio 3:2. The smaller angle measures

a. 108° b. 81° c. 72° d. 68°

16. The length of a rectangle is 5cm less than its breadth. If the perimeter of the rectangle is 30cm, find its area.

a. $28cm^2$ b. $12cm^2$ c. $50cm^2$ d. none

17. The value of $[((4)^2) - ((2)^3)]$

a. 8 b. 2 c. 3 d. 4

18. In a triangle ABC, if <A=<B+<C, then <A

a. 60 b. 45 c. 90 d. none

19. Two sides of a triangle are 7 and 10 units, what is the third side?

a. 19cm b.17cm c.$38cm$ $d. none$

20. If two supplementary angles are differ by 44 then one of the angle is

a. 102 b. 65 c. 112 d. 72