Properties of Triangle Worksheet – 1

1. A triangle can have four vertices. Mark True / False.

a)   True   b)   False

2. A triangle whose one angle is more than 90º is known as obtuse triangle. Mark True / False.

a)   True   b)   False

3. All three sides of a triangle are unequal; it is known as equilateral triangle. Mark True / False.

a)   True   b)   False

4. If all the three angles of a triangle are equal to 90º, then it is known as right-angled triangle. Mark True / False.

a)   True   b)   False

5. All three sides of an equilateral triangle is equal. Mark True / False.

a)   True   b)   False

6. Sum of all the angles of a triangle is equal to _____.

a)   90º   b)   180º

c)   270º   d)   360º

7. If one angle of a triangle is more than 90º, then it is known as _____ triangle.

a)   Acute   b)   Right-angled

c)   Obtuse   d)   Scalene

8. In an equilateral triangle measure of each angle is equal to _____.

a)   180º   b)   90º

c)   270º   d)   60º

9. A triangle has at least _____ acute angles.

a)   1   b)   2

c)   3   d)   None of these

10. A triangle can not have more than _____ obtuse angles.

a)   1   b)   2

c)   3   d)   None of these

11. The sum of all the three angles of a triangle is equal to _____ right angles.

a)   1   b)   2

c)   3   d)   None of these

12. The number of medians in a triangle is equal to _____.

a)   1   b)   2

c)   3   d)   None of these

13. A triangle formed by the sides of lengths 5 cm, 7 cm, and 5 cm is known as _____.

a)   Right-angled triangle

b)   Isosceles triangle

c)   Equilateral triangle

d)   Scalene triangle

14. A right-angled triangle can have two _____ angles.

a)   Right   b)   Obtuse

c)   acute   d)   None of these

15. A triangle whose angles measures are 25°, 65° and 90°, then it is known as _____.

a)   Right-angled triangle

b)   Isosceles triangle

c)   Equilateral triangle

d)   Scalene triangle

16. Which of the below mentioned angles can form a triangle?

a)   27°, 65°, 93°   b)   25°, 75°, 90°

c)   25°, 65°, 80°   d)   45°, 65°, 70°

17. In a $\triangle$ABC, if $\angle$A = 45°, $\angle$B = 45° then $\angle$C is equal to _____.

a)   90°   b)   45°

c)   65°   d)   99°

18. If an isosceles triangle's both base angles are 35°, then the triangle is known as _____.

a)   Right-angled triangle

b)   Isosceles right-angled triangle

c)   Equilateral triangle

d)   Obtuse triangle

19. In a right-angled triangle the length of two sides are 3 cm and 4 cm. Find the length of hypotenuse.

a)   4 cm   b)   5 cm

c)   6 cm   d)   7 cm

20. If one angle of a triangle is equal to the sum of the other two angles which are equal, then the measure of these two angles are equal to _____.

a)   65⁰   b)   45⁰

c)   90⁰   d)   99⁰