## Polygon Worksheet - 2

1. A simple closed curve made up entirely of line segments is called as triangle. Mark True / False.
a) True
b) False
2. 6-sided polygon is known as hexagon. Mark True / False.
a) True
b) False
3. 10-sided polygon is known as decagon. Mark True / False.
a) True
b) False
4. Sum of all interior angles of a polygon is equal to $180^{\circ}$. Mark True / False.
a) True
b) False
5. Sum of all exterior angles of a polygon is equal to $360^{\circ}$. Mark True / False.
a) True
b) False
6. The curves which have same beginning, and end points is known as open curves. Mark True / False.
a) True
b) False
7. A polygon in which at least one interior angle is greater than $180^{\circ}$ is called as convex polygon. Mark True / False.
a) True
b) False
8. Sum of measures of all interior angles of a hexagon is $720^{\circ}$. Mark True / False.
a) True
b) False
9. Sum of interior angles and its corresponding exterior angles is equal to $270^{\circ}$. Mark True / False.
a) True
b) False
10. A square can be a regular polygon. Mark True / False.
a) True
b) False
11. The sum of interior angles of a polygon is equal to $5400^{\circ}$. Find out the number of sides this polygon has.
a) 30
b) 28
c) 32
d) 36
12. How many sides a regular polygon has if each interior angle is equal to $150^{\circ}$ ?
a) 7
b) 10
c) 8
d) 12
13. Find the number of sides of a regular polygon whose each exterior angle is equal to $18^{\circ}$.
a) 10
b) 15
c) 18
d) 20
14. If the exterior angles of a polygon are in the ratio of $1: 2: 3: 4: 5$, then find the largest interior angle.
a) $148^{\circ}$
b) $156^{\circ}$
c) $254^{\circ}$
d) $150^{\circ}$
15. Find the interior angles of a regular hexagon?
a) $120^{\circ}$
b) $135^{\circ}$
c) $145^{\circ}$
d) $155^{\circ}$
16. If all the angles of a 12 -sided polygon are equal then find the measure of each angle.
a) $120^{\circ}$
b) $135^{\circ}$
c) $145^{\circ}$
d) $150^{\circ}$
17. Find the sum of exterior angles of a polygon having 120 sides.
a) $370^{\circ}$
b) $345^{\circ}$
c) $360^{\circ}$
d) $365^{\circ}$
18. In a pentagon, two angles are $30^{\circ}$ and $50^{\circ}$, and rest angles are in the ratio of $2: 3: 5$. Find the largest angle of the pentagon.
a) $320^{\circ}$
b) $230^{\circ}$
c) $150^{\circ}$
d) $160^{\circ}$
19. Two angles of a polygon are right angles and remaining angles are $120^{\circ}$. Find the number of sides of the polygon.
a) 7
b) 4
c) 8
d) 5
20. The sum of interior angles of a regular polygon is twice the sum of its exterior angles. Find the number of sides of the polygon.
a) 7
b) 6
c) 8
d) 5
