Polygon Worksheet – 1

1. A polygon in which at least one angle is more than 180° is known as convex polygon. Mark True / False.

a) True b) False

2. A polygon in which each angle is less than 180° is known as a concave polygon. Mark True / False.

a) True b) False

3. A polygon having all sides equal and all angles equal is known as a regular polygon. Mark True / False.

a)	True	b)	False
4. Square is not a regular polygon. Mark True / False.			
a)	True	b)	False
5. Rectangle is a regular polygon. Mark True / False.			
a)	True	b)	False
6. Rhombus is an irregular polygon. Mark True / False.			
a)	True	b)	False
7. Sum of all exterior angles of a polygon is equal to 180°. Mark True / False.			
a)	True	b)	False
8. Line segment joining any two nonconsecutive vertices of a polygon is known as its diagonal. Mark True / False.			
a)	True	b)	False
9. If a polygon has 'n' sides, then the number of triangles formed will be n – 3. Mark True / False.			
a)	True	b)	False
10. A parallelogram can be a regular polygon. Mark True / False.			
a)	True	b)	False
11. If a regular polygon has 12 sides, then find the sum of all its exterior angles.			
a)	90°	b)	180°
c)	270°	d)	360°

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12. How many diagonals are there in a pentagon? 4 b) 5 a) c) 6 d) 7 13. How many diagonals are there in an octagon? a) 10 b) 15 c) 18 d) 20 14. How many diagonals are there in a polygon having 12 sides? a) 48 b) 50 54 d) c) 56 15. A polygon is having 27 diagonals. How many sides does it have? a) 6 b) 7 c) 8 d) 9 16. A regular polygon is having exterior angle 35°. What will be its interior angle? a) 120° b) 135° c) 145° d) 155° 17. A regular polygon having 8 sides, find the exterior angles. 30° 45° a) b) 55° 65° c) d) 18. A regular polygon having 12 sides, find the interior angles. 130° 30° a) b) c) 150° d) 60° 19. Each interior angle of a regular decagon is equal to _____. a) 130° b) 144° c) 150° d) 36° 20. What is the sum of all interior angles of a regular pentagon? a) 130° b) 540° c) 450° d) 360°

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