Class: 7
Date: 16.11.20
Worksheet Solution 04
Polygon

## Choose the Correct options:

1. What is the sum of the interior angles of a triangle?
a. $60^{\circ}$
b. $90^{\circ}$
c. $120^{\circ}$
d. $180^{\circ}$
2. What is the measure of ONE interior angle in a regular pentagon (5-sides)?
a. $90^{\circ}$
b. $\underline{108}^{\circ}$
c. $120^{\circ}$
d. $180^{\circ}$
3. What is the sum of the interior angles of a nonagon ( 9 sides)?
a. $1440^{\circ}$
b. $900^{\circ}$
c. $1080^{\circ}$
d. $\mathbf{1 2 6 0}^{\circ}$
4. Find the angle sum of the interior angles of the polygon.

a. $180^{\circ}$
b. $540^{\circ}$
c. $720^{\circ}$
d. $1080^{\circ}$
5. Find the value of X

a. $\underline{94}$
b. 25
c. 36
d. 180
6. What is the name of a 7 sided polygon?
a. Hexagon
b. Heptagon
c. Octagon
d. nonagon
7. How many sides does an octagon have?
a. 8
b. 7
c. 6
d. 9
8. What is the sum of the exterior angles in a decagon?
a. 10
b. 360
c. 361
d. 440
9. Which formula is used to find the sum of the interior angles of a polygon?
a. 180
b. $(\mathrm{n}-2) 180 \div \mathrm{n}$
c. (n-2)180
d. $n(n-3) / 2$
10. If the measure of an exterior angle of a regular polygon is $24^{\circ}$, how many sides does the polygon have?
a. 12
b. 13
c. 14
d. 15
11. What is a polygon?
a. A closed figure made up of straight line segments
b. An open figure made up of straight line segments
c. A closed figure made up of curved edges
d. An closed figure made up of crossed line segments
12. A polygon's interior angles add up to 2700 . How many sides does the polygon have?
a. $\underline{17}$
b. 15
c. 19
d. 11
13. Find the number of sides of a regular polygon with one interior angle measuring $165^{\circ}$
a. 24
b. 22
c. 26
d. 20
14. Josh drew a heptagon as a window on his picture. How many sides does his window have?
a. 6
b. 7
c. 8
d. 9
15. Is the figure a polygon? Is it convex or concave?

a. Not a polygon, convex
b. Polygon, convex
c. Not a polygon
d. Polygon, concave
