



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



CLASS 8

SUBJECT :Algebra and Geometry Work sheet 4 answer key

MARKS: 15

SPECIAL TYPES OF QUADRILATERALS(POLYGONS)

Date:10.4.2020

Answer all the following questions:(1×15=15)

1. A simple closed curve made up of only \_\_\_\_\_ is called a polygon .

- A) curves
- B) line segments
- C) lines
- D) closed curves

Answer:B

2. A polygon with minimum number of sides is

- A) Pentagon
- B) Square
- C) triangle
- D) None of these

Answer:C

3. Polygons that have no portions of their diagonals in their exteriors are called

- A).Squares
- B) Triangles
- C) Convex
- D) concave

Answer:C

4. Polygons that have any portions of their diagonals in their exteriors are called

- A) Squares
- B) triangles
- C) convex

D) Concave

Answer:D

5. All the sides of a regular polygon are \_\_\_\_\_.

A) Parallel

B) Equal

C) Not parallel

D) Not equal

Answer:B

6. Sum of all interior angles of a polygon with (n) sides is given by

A)  $(n - 2) \times 180^\circ$

B)  $n - 2 \times 180^\circ$

C)  $(n + 2) \times 180^\circ$

D)  $(n + 2) \times 180^\circ$

Answer:A

7. Maximum number of right angles in a right angled triangle are

A) 2

B) 1

C) 3

D) 0

Answer:B , if there are 2 right angles then third angle be  $0^\circ$

8. The angle sum of all interior angles of a convex polygon of sides 7 is

A)  $180^\circ$

B)  $540^\circ$

C)  $630^\circ$

D)  $900^\circ$

Answer:D,  $(7-2) \times 180 = 900^\circ$

9. Each exterior angle of a regular hexagon is of measure

A)  $120^\circ$

B)  $80^\circ$

C)  $100^\circ$

D)  $60^\circ$

Answer:D,  $360^\circ \div 6 = 60^\circ$

10. The number of sides in a regular polygon is 15 , then measure of each exterior angle is

A)  $24^\circ$

B)  $36^\circ$

C)  $20^\circ$

D)  $18^\circ$

Answer: A ,  $360^\circ \div 15 = 24^\circ$

11. Minimum possible interior angle in a regular polygon is \_\_\_\_\_.

A)  $70^\circ$

B)  $60^\circ$

C)  $90^\circ$

D)  $120^\circ$

Answer: B, triangle

12. How many sides does a heptagon have?

A) 2

B) 4

C) 7

D) 5

Answer: C

13. Maximum possible exterior angle in a regular polygon is \_\_\_\_\_.

A)  $70^\circ$

B)  $60^\circ$

C)  $90^\circ$

D)  $120^\circ$

Answer: D, exterior angle of triangle =  $180 - 60 = 120^\circ$

14. Sum of all interior angles of a parallelogram is

A)  $180^\circ$

B)  $360^\circ$

C)  $540^\circ$

D)  $240^\circ$

Answer: B ,  $n=4$

15. A polygon having six sides is called

A) hexagon

B) pentagon

C) octagon

D) heptagon

Answer: A

