CLASS 8

SUBJECT :Algebra andGeometryWork sheet14

Marks:15TRIANGLES

Date:1.3.21

Answer all thefollowing questions(1×15=15)

1) In triangle ABC, if AB=BC and ∠B = 70°, ∠A will be:

a. 70°

b. 110°

c. 55°

d. 130°

2)For two triangles, if two angles and the included side of one triangle are equal to two angles and the included side of another triangle. Then the congruency rule is:

a. SSS

b. ASA

c. SAS

d. None of the above

3) A triangle in which two sides are equal is called:

a. Scalene triangle

b. Equilateral triangle

c. Isosceles triangle

d. None of the above

4) The angles opposite to equal sides of a triangle are:

a. Equal

b. Unequal

c. supplementary angles

d. Complementary angles

5) If E and F are the midpoints of equal sides AB and AC of a triangle ABC. Then:

a. BF=AC

b. BF=AF

c. CE=AB

d. BF = CE

6) ABC is an isosceles triangle in which altitudes BE and CF are drawn to equal sides AC and AB respectively. Then:

a. BE>CF

b. BE<CF

c. BE=CF

d. None of the above

7) If ABC and DBC are two isosceles triangles on the same base BC. Then:

a. $\angle ABD = \angle ACD$

b. $\angle ABD > \angle ACD$

c. $\angle ABD < \angle ACD$

d. None of the above

8) If ABC is an equilateral triangle, then each angle equals to:

a. 90°

B.180°

c. 120°

d. 60°

9) If AD is an altitude of an isosceles triangle ABC in which AB = AC. Then:

a. BD=CD

b. BD>CD

c. BD<CD

d. None of the above

10) In a right triangle, the longest side is:

a. Perpendicular

b. Hypotenuse

c. Base

d. None of the above

11. Two triangles, A PQR and ADEF are of the same size and shape. What can we conclude about them?

(a) ΔPQR is smaller than ΔDFE.

(b) ΔPQR is larger than ΔDFE.

(c) ΔPQR is congruent to ΔDFE.

(d) ΔPQR is not congruent to ΔDFE.

12. Which of the following is not a congruence criterion?

(a) ASA

(b) SAS

(c) SSS

(d) None of these

13. ΔABC and ΔPQR are congruent under the correspondence: ABC ↔ RQP, then the part of ΔABC that correspond to ∠P is

(a) ∠A

(b) ∠C

(c) ∠B

(d) None of these

14. In ΔPQR and ΔXYZ, ∠P = 50o, XY = PQ, and XZ = PR. By which property are ΔXYZ and ΔPQR congruent?

(a) S.S.S. property

(b) S.A.S. property

(c) A.S.A. property

(d) R.H.S. property

15. Two students drew a line segment each. What is the condition for them to be congruent?

(a) They should be drawn with a scale.

(b) They should be drawn on the same sheet of paper.

(c) They should have different lengths.

(d) They should have the same length.

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