# Congruency of Triangles: Worksheet -8

1. If two Triangles have their corresponding angles equal, then they are always congruent. [ ]

a] True b] False

c] Cannot be determined d] None

2. In $\Delta ABC$, $AD \perp BC$, $\angle B = \angle C$ and $AB = AC$. State by which property $\Delta ADB \cong ADC$? [ ]

a] SAS property b] SSS property

c] RHS property d] ASA property

3. Two congruent triangles will [ ]

a] Have equal area b] Have equal perimeter

c] Both d] None

4. In $\Delta ABC$, AB = AC and AD is perpendicular to BC. State the property by which $\Delta ADB = \Delta ADC$. [ ]

a] SAS property b] SSS property

c] RHS property d] All the above

5. Which of the following statements (s) is/are false? [ ]

a] Two triangles having same area are congruent.

b] If two sides and one angle of a triangle are equal to the corresponding two sides and the angle of another triangle, then the two triangles are congruent.

c] If the hypotenuse of one right triangle is equal to the hypotenuse of another triangle, then the triangles are congruent.

d] All the above.

6. “If the two triangles have their corresponding angles equal, then they are always congruent”. The statement is [ ]

a] True b] False

c] Cannot be determined d] Not complete

7. Two triangles are congruent if two angles and the side included between them in one of the triangle are equal to the corresponding angles and the side included between them of the other triangle. This is the property of [ ]

a] SAS congruence b] RHS congruence

c] AAA congruence d] ASA congruence

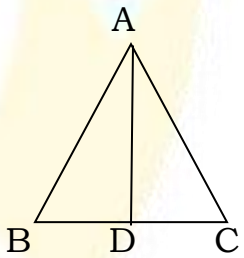
8. If $\Delta DEF \cong \Delta BCA$, then [ ]

a] $\angle D = \angle A$ b] $\angle E = \angle A$ c] $\angle F = \angle C$ d] $\angle E = \angle C$

9. State the property by which $\Delta ADB \cong \Delta ADC$ in the following figure, [ ]

a] SAS property b] SSS property

c] RHS property d] ASA property




10. The triangle ABC and PQR may not be congruent when [ ]

a] AB = PQ, AC = PR, $\angle A = \angle P$

b] AB = PQ, AC = PR, Altitude AD = Altitude PS

c] AB = PQ, AC = PR, $\angle B = \angle Q$

d] $\angle A = \angle P$, $\angle B = \angle Q$, Altitude AD = Altitude PS