



Concept HW_Grade-7_Triangles

Applied Problems on Properties of Triangles

Choose correct answer(s) from the given choices

- (1) How many right angle can we have in a triangle?
a. 0
b. 2
c. 3
d. 1
- (2) In a triangle, the third angle is double the first angle and the first angle is one-third of the second angle. What is the value of the second angle?
a. 30°
b. 90°
c. 60°
d. 45°
- (3) If a triangle ABC is drawn such that the sides AB and AC are equal and $\angle C$ is 45° , then, what is the value of $\angle A$?
a. 105°
b. 90°
c. 85°
d. 135°
- (4) The sides of a triangle are in the ratio 5 : 6 : 9. The perimeter of the triangle is 60 cm. What is the length of the longest side?
a. 25 cm
b. 31 cm
c. 27 cm
d. 24 cm
- (5) Which of the following is false for a triangle?
a. Two angles are acute angles
b. Two angles are right angles
c. Each angle is equal to 60°
d. One angle is an obtuse angle

Answer the questions

- (6) Angles of a triangle are in the ratio 5:8:7. What is the value of the largest angle?
- (7) Angles A, B, and C of a triangle are in the ratio 3:2:5. Find the value of angle A.
- (8) If two angles in a triangle add up to 92° , then find the value of the third angle.
- (9) In a right angled triangle, one of the other two angles is 43° . What is the value of the remaining angle?