

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date: .....

Name: .....

ID No.....

## Multiple Choice Questions

Write the correct answer for each of the following:

1. Two sides of a triangle are 4 cm and 1.5 cm. The length of the third side of the triangle cannot be  
(a) 2.6 cm                      (b) 2.7 cm                      (c) 2.8 cm                      (d) 2.4 cm

Sol.

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2. In an isosceles triangle PQR,  $PQ = PR$  and QP is produced to S, such that  $PQ = PS$ , then  $\angle QRS$  is  
(a)  $60^\circ$                       (b)  $30^\circ$                       (c)  $90^\circ$                       (d)  $45^\circ$

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3. If the three altitudes of a triangle are equal then triangle is  
(a) right angled                      (b) isosceles angled                      (c) obtuse angled                      (d) equilateral

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4. Each angle of an equilateral triangle is  
(a)  $30^\circ$                       (b)  $45^\circ$                       (c)  $60^\circ$                       (d) none of these

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5. In a right angled triangle, if one acute angle is half the other then the smallest angle is  
(a)  $15^\circ$                       (b)  $25^\circ$                       (c)  $30^\circ$                       (d)  $35^\circ$

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6. If AD is median of  $\triangle ABC$ , then  
(a)  $AB + AC = 2AD$                       (b)  $AB + AC < 2AD$                       (c)  $AB + AC > 2AD$                       (d) none of these

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