

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date: .....

Name: .....

ID No.....

## 1. Write the correct answer for each of the following:

(i) If the base and height of a triangle are doubled then its area

- (a) becomes 2 times                      (b) becomes 4 times                      (c) is halved                      (d) does not change

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(ii) The length of each side of an equilateral triangle having an area of  $9\sqrt{3}\text{cm}^2$  is

- (a) 8 cm                      (b) 36 cm                      (c) 4 cm                      (d) 6 cm

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(iii) The area of a trapezium with parallel sides 16 cm and 10 cm in length and the distance of 6 cm between them is

- (a)  $58\text{cm}^2$                       (b)  $39\text{cm}^2$                       (c)  $156\text{cm}^2$                       (d)  $78\text{cm}^2$

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(iv) If a, b, c are the lengths of three sides of a triangle, then area of triangle =  $\sqrt{s(s-a)(s-b)(s-c)}$ , where s is

- (a) perimeters of the triangle                      (b) semi-perimeter of the triangle  
(c) height of the triangle                      (d) shortest side of the triangle

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