

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: IX

Date:

Name:

ID No.....

Formulae Quiz

Directions: Match the following by shading the circles given at the bottom.

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|---|--|
| (i) Heron's formula | (a) $\frac{\sqrt{3}}{4}a^2$ |
| (ii) Area of isosceles triangle with base a and equal sides b each. | (b) $\frac{3}{2}\sqrt{3}a^2$ |
| (iii) Area of triangle with base b and altitude a | (c) $\frac{1}{2}(a+b) \times h$ |
| (iv) Area of equilateral triangle with side a | (d) Area of a triangle = $\sqrt{s(s-a)(s-b)(s-c)}$,
where, $s = \frac{a+b+c}{2}$ |
| (v) Area of rectangle with length a and breadth b | (e) $\sqrt{2}a$ |
| (vi) Diagonal of the square with side a | (f) $\frac{a}{4}\sqrt{4b^2 - a^2}$ |
| (vii) Area of parallelogram with base b and altitude h | (g) $\frac{1}{2}ab$ |
| (viii) Area of rhombus with diagonals d1 and d2 | (h) ab |
| (ix) Area of a trapezium with parallel sides a and b and height h. | (i) bh |
| (x) Area of a regular hexagon with side a | (j) $\frac{1}{2}d_1 \times d_2$ |

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
(i)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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