**IMPORTANT FORMULAE**

1. 1.   Area of a rectangle = (Length x Breadth).

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| https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Length = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | Area | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | and Breadth = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | Area | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | . |
| Breadth | Length |

1. 2.   Perimeter of a rectangle = 2(Length + Breadth).
2. Area of a square = (side)2 = https://www.indiabix.com/_files/images/aptitude/1-div-1by2.gif(diagonal)2.
3. Area of 4 walls of a room = 2 (Length + Breadth) x Height.
4. 1.   Area of a triangle = https://www.indiabix.com/_files/images/aptitude/1-div-1by2.gif x Base x Height.

2.   Area of a triangle = *s*(*s*-*a*)(*s*-*b*)(*s*-*c*)   
      where *a*, *b*, *c* are the sides of the triangle and *s* = https://www.indiabix.com/_files/images/aptitude/1-div-1by2.gif(*a* + *b* + *c*)

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| 3.   Area of an equilateral triangle = | 3 | x (side)2. |
| 4 |
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| 4.   Radius of incircle of an equilateral triangle of side *a* = | *a* | . |
| 23 |
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| 5.   Radius of circumcircle of an equilateral triangle of side *a* = | *a* | . |
| 3 |
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| 6.   Radius of incircle of a triangle of area https://www.indiabix.com/_files/images/aptitude/1-sym-tag.gif and semi-perimeter *r* = | https://www.indiabix.com/_files/images/aptitude/1-sym-tag.gif | . |
| *s* |
|  |  |  |

1. 1.   Area of parallelogram = (Base x Height).

2.   Area of a rhombus = https://www.indiabix.com/_files/images/aptitude/1-div-1by2.gif x (Product of diagonals).

3.   Area of a trapezium = https://www.indiabix.com/_files/images/aptitude/1-div-1by2.gif x (sum of parallel sides) x distance between them.

1. 1.   Area of a circle = https://www.indiabix.com/_files/images/aptitude/1-sym-pi.gifR2, where R is the radius.

2.   Circumference of a circle = 2https://www.indiabix.com/_files/images/aptitude/1-sym-pi.gifR.

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| 3.   Length of an arc = | 2https://www.indiabix.com/_files/images/aptitude/1-sym-pi.gifRhttps://www.indiabix.com/_files/images/aptitude/1-sym-tta.gif | , where https://www.indiabix.com/_files/images/aptitude/1-sym-tta.gif is the central angle. |
| 360 |
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| 4.   Area of a sector = | 1 | (arc x R) | = | https://www.indiabix.com/_files/images/aptitude/1-sym-pi.gifR2https://www.indiabix.com/_files/images/aptitude/1-sym-tta.gif | . |
| 2 | 360 |
|  |  |  |  |  |  |

1. 1.   Circumference of a semi-circle = https://www.indiabix.com/_files/images/aptitude/1-sym-pi.gifR.

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| 2.   Area of semi-circle = | https://www.indiabix.com/_files/images/aptitude/1-sym-pi.gifR2 | . |
| 2 |