**Surface Area and Volume Formulas**

Below given is the *table* for calculating **Surface area and Volume** for the basic geometrical figures:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Perimeter** | **Total Surface Area** | | **Curved Surface Area/Lateral Surface Area** | | **Volume** | **Figure** | | |
| **Square** | 4a | a2 | —- | | —- | | | Square |
| **Rectangle** | 2(w+h) | w.h | —- | | —- | | | Rectangle |
| **Parallelogram** | 2(a+b) | b.h | —- | | —- | | | Parallelogram |
| **Trapezoid** | a+b+c+d | 1/2(a+b).h | —- | | —- | | | Trapezoid |
| **Circle** | 2 π r | π r2 | —- | | —- | | | Circle |
| **Ellipse** | 2π√(a2 + b2)/2 | π a.b | —- | | —- | | | Ellipse |
| **Triangle** | a+b+c | 1/2 \* b \* h | —- | | —- | | | Triangle |
| **Cuboid** | 4(l+b+h) | 2(lb+bh+hl) | 2h(l+b) | | l \* b \* h | | | Cuboid |
| **Cube** | 6a | 6a2 | 4a2 | | a3 | | | Cube |
| **Cylinder** | —- | 2 π r(r+h) | 2πrh | | π r2 h | | | Cylinder |
| **Cone** | —- | π r(r+l) | π r l | | 1/3π r2 h | | | Cone |
| **Sphere** | —- | 4 π r2 | 4π r2 | | 4/3π r3 | | | Sphere |
| **Hemisphere** | —- | 3 π r2 | 2 π r2 | | 2/3π r3 | | | Hemisphere |