


Area and perimeter and volume formulas for all shapes pdf




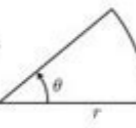
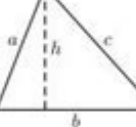
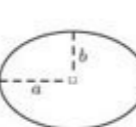
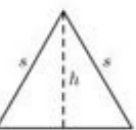


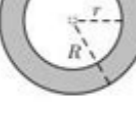
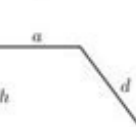
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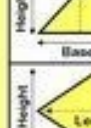



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2D GEOMETRY FORMULAS









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| | |
|--|---|
| <p>SQUARE s = side Area: $A = s^2$ Perimeter: $P = 4s$</p>  | <p>CIRCLE r = radius, d = diameter Diameter: $d = 2r$ Area: $A = \pi r^2$ Circumference: $C = 2\pi r = \pi d$</p>  |
| <p>RECTANGLE l = length, w = width Area: $A = lw$ Perimeter: $P = 2l + 2w$</p>  | <p>SECTOR OF CIRCLE r = radius, θ = angle in radians Area: $A = \frac{1}{2}r^2\theta$ Arc Length: $s = r\theta$</p>  |
| <p>TRIANGLE b = base, h = height Area: $A = \frac{1}{2}bh$ Perimeter: $P = a + b + c$</p>  | <p>ELLIPSE a = semi-major axis b = semi-minor axis Area: $A = \pi ab$ Circumference: $C \approx \pi(2a + b) - \sqrt{(a-b)(b+3a)}$</p>  |
| <p>EQUILATERAL TRIANGLE s = side Height: $h = \frac{\sqrt{3}}{2}s$ Area: $A = \frac{\sqrt{3}}{4}s^2$</p>  | <p>ANNULUS r = inner radius R = outer radius Average Radius: $\rho = \frac{1}{2}(r + R)$ Width: $w = R - r$ Area: $A = \pi(R^2 - r^2)$ or $A = 2\pi\rho w$</p>  |
| <p>PARALLELOGRAM b = base, h = height, a = side Area: $A = bh$ Perimeter: $P = 2a + 2b$</p>  | <p>REGULAR POLYGON s = side length, n = number of sides Circumradius: $R = \frac{s}{2\cos(\frac{\pi}{n})}$ Area: $A = \frac{1}{2}ns^2 \cot(\frac{\pi}{n})$ or $A = \frac{1}{2}nR^2 \sin(\frac{2\pi}{n})$</p>  |
| <p>TRAPEZOID a, b = bases, h = height, c, d = sides Area: $A = \frac{1}{2}(a + b)h$ Perimeter: $P = a + b + c + d$</p>  | |

| Shape | Area | Perimeter |
|---------------|---------------------|-----------------|
| Square | s^2 | $4s$ |
| Rectangle | lw | $2l + 2w$ |
| Triangle | $\frac{1}{2}bh$ | $a + b + c$ |
| Circle | πr^2 | $2\pi r$ |
| Parallelogram | bh | $2a + 2b$ |
| Trapezoid | $\frac{1}{2}(a+b)h$ | $a + b + c + d$ |

| Shape | Name | Formula for Area |
|---|---------------|----------------------------------|
|  | Square | Base x Height |
|  | Rectangle | Base x Height |
|  | Triangle | Base x Perpendicular Height / 2 |
|  | Trapezium | $(a+b) \times \text{height} / 2$ |
|  | Parallelogram | Base x Perpendicular Height |
|  | Rhombus | Length x Height / 2 |
|  | Kite | Length x Height / 2 |

Area and Perimeter Formulas Reference Sheet Fall 2013

| Name of Shape | Labels/Dimensions | Area Formula | Perimeter Formula |
|---|---|--------------------------------------|---|
| Rectangle - four right angles |  | $A = lw$ | $P = 2l + 2w = 2(l + w)$ The perimeter is the sum of all four sides. |
| Square - all sides are congruent (one angle is right angle) |  | $A = s^2$ | $P = 2l + 2w = 2s + 2s = 4s$ |
| Parallelogram - opposite sides are parallel |  | $A = bh$ | $P = 2l + 2w = 2l + 2w$ When you calculate the perimeter, add up all four sides. Don't include the height. |
| Kite or two pairs of adjacent congruent sides |  | $A = \frac{d_1 d_2}{2}$ | Sum of all four sides. |
| Rhombus - all four sides are congruent (the base length) |  | $A = s^2$ $A = \frac{d_1 d_2}{2}$ | $P = 2l + 2w = 4s$ All four sides of a rhombus are congruent (the same length). |
| Circle |  | $A = \pi r^2$ | $C = \pi d = 2\pi r$ The "perimeter" of a circle is its circumference. Remember that $d = 2r$. |
| Triangle |  | $A = \frac{1}{2}bh$ | $P = a + b + c$ For a right triangle, make sure that the "h" is the height. |
| Trapezoid - two sets of parallel sides |  | $A = \frac{(b_1 + b_2)h}{2}$ | $P = b_1 + b_2 + s_1 + s_2$ Use the perpendicular height between the two bases, not a "slant height". |

| | |
|-----------|------------------------|
| Area | $A = \frac{1}{2}bh$ |
| Perimeter | $P = 2l + 2w$ |
| Diagonal | $d = \sqrt{l^2 + w^2}$ |
| Length | $l = \frac{A}{w}$ |
| Width | $w = \frac{A}{l}$ |

Area and perimeter and volume formulas for all shapes pdf.

2D Shapes Name of geometric shape Diagram Perimeter Surface Area Volume Sphere $4\pi r^2$ $\frac{4}{3}\pi r^3$ Cone $\pi r^2 + \pi rl$ $\frac{1}{3}\pi r^2 h$ X height $\frac{1}{3}(\text{base area}) \times \text{height}$ If you are viewing this message, it means that we are having problems loading external resources on our website. If you are behind a web filter, please make sure the domains *.kastatic.org and *.kasandbox.org are unlocked. See also: Introduction to Geometry The chart on this page is designed to be a quick reference to calculate the area, surface and volume of common forms. For more information and examples of these calculations see our pages: Calculation area, three-dimensional shapes and calculation volume. Definitions Apothem: The line that connects the center of a regular polygon with one of its sides. The line is perpendicular (right angle) next door. Axis: A reference line on which an object, point or line is drawn, rotated or measured. In symmetrical form, an axis is usually a line of symmetry. Radius: The distance from the geometric center of a shape curved to its circumference (edge). Additional reading of the skills you need Guide to Numeracy This four-part guide takes you through the numeration bases of arithmetic to algebra, with stops between fractions, decimals, geometry and statistics. Whether you want to brush your bases or help your children with their learning, this is the book for you. Perimeter = distance around the edge. You could walk through the perimeter. All dimensions must have the same units! Don't mix cm with m. The perimeter has simple units. Example $P = 5 + 2 + 3 + 3 + 3 + 2 + 2$ cm $P = \text{cm}$ area = covered floor space where you could paint an area. All dimensions must have the same units! Do not mix cm, 2 with m $1 \text{ m}^2 = 100 \text{ cm} \times 100 \text{ cm} = 10\,000 \text{ cm}^2$ The area has units². Example Calculate the area of the square Examples Calculate the area of the rectangles Area of a triangle = equal to 2 x base x perpendicular height Examples Find the area of the triangle following: What is the length of the base of the triangle, if it has an area of 45 cm²? Example Calculate the area of the following kite: Area of a trapeze = 1/2 x mean of the base x perpendicular height Example What is the area of this trapeze? (Each square represents 1 cm²) Example Calculate the area of the parallelogram: Example Calculate the area of the rhombus: (Sides are for full diagonals) Volume = retained capacity You could fill a volume All dimensions must have the same units! Do not mix cm with m. The volume has units:3 Notice that for a cuboid Example Calculate the volume of the cuboid as follows: Example Convert 1m³ to liters First, convert the units But 1 cm³ = 1 ml and 1000 ml = 1 liter Divide cm³ by 1000 for liters. So 1 000 000 cm³ = 1000 litres 1 m³ = 1000 litres A sphere has volume Examples Calculate the volume of the next sphere. Give your correct answer to 1 dp and also to 2 sig figs. Calculate the volume of the next sphere. Give your correct answer to 1 sig fig. Calculate the diameter of a sphere that has a volume of 700cm³. Give your correct answer to 1 dp. A cone has volume $\frac{1}{3}Ah$ where r is the radius of the circular part of the cone and h is the perpendicular height of the cone. Example Calculate the volume of an ice cream cone that has a diameter of 4cm and a height of 6cm. Give your correct answer to 1 dp. How many of these cones can be filled with 1 liter of ice cream? 1000 cm³ = 1 1000 AA- 25.1 = 39.84 So 39 cones can be filled with Ice cream. Example Calculate the height a cream cone that has a diameter of 4cm and a volume of 35ml. Give your correct answer to 1 dp. The cone is 8.4 cm high. Example Calculate the diameter of an ice cream cone that has a height of 8cm and a volume of 90ml. Give your correct answer to 1 dp. For a prism, $V = Ah$ Thus Volume = Area x height A A A Example What is the volume of a prism that has an area of 37 cm² and a height of 4 cm? A cylinder is a circular prism. Example Calculate the volume of a tin that has a height of 0.8m and a diameter of 10 cm. Answer correctly to 1 sigfig. Example Calculate the diameter of a can that has a height of 8cm and a volume of 90ml. Give your correct answer to 1 dp. The volume of any pyramid is given as where A is the base area of the pyramid and h is its height. Examples What is the volume of this pyramid based on squares? What is the volume of this rectangular base pyramid? What is the volume of this triangular base pyramid? The surface area is the total external area of the form. Examples of the surface area of the cuboid: This shape has 6 faces 2 faces have area 6cm x 4cm 2 faces have area 6cm x 2cm 2 faces have area 2 cm x 4cm 2 sides have area 2 cm x 4cm 2 x 6cm x 2 cm = 24 cm² = 2 x 2cm x 4cm = 16Afc

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