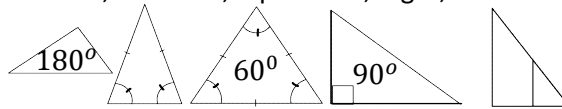


M8 - 5.0 - SA/V Table Review

$$a^2 + b^2 = c^2$$

Scalene, Isosceles, Equilateral, Right, Similar



$$\frac{a}{b} = \frac{c}{d}$$

Area & Perimeter

Square

Rectangle

Triangles



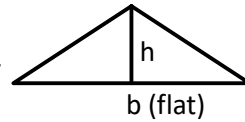
$$A = s^2$$

$$P = 4s$$



$$A = l \times w$$

$$P = 2l + 2w$$



$$A = \frac{bh}{2}$$

$$p = a + b + c$$



$$A = \pi r^2$$

$$C = 2\pi r$$

Shape	Surface Area	Volume
<p>Cube</p>	$SA = s^2 \times 6$	$V = Area_{base} \times height$ $V = s^3$
<p>Rectangular Prism</p>	$SA = 2(lw + lh + wh)$	$V = lwh$
<p>Cylinder</p>	$SA = 2\pi r^2 + 2\pi rh$	$V = \pi r^2 h$
<p>Triangular Prism</p>	$SA = bh + 2sH + bH$	$V = \frac{bh}{2} \times H$
<p>Cone</p>	$SA = \pi r^2 + \pi rs$	$V = \frac{1}{3} Area_{base} \times height$ $V = \frac{1}{3} \times (\pi r^2) \times h$
<p>Square-Based Pyramid</p>	$SA = 2bs + b^2$	$V = \frac{1}{3} \times l \times w \times h$
<p>General Right Pyramid</p>	$SA = \text{sum side faces}$	$V = \frac{1}{3} \times l \times w \times h$
<p>Sphere</p>	$SA = 4\pi r^2$	$V = \frac{4}{3} \pi r^3$

M8 - 5.0 - Geometry Review

Square & Rectangle Triangle

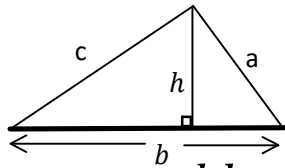


$$A = Lw$$

$\boxed{\text{units}^2}$

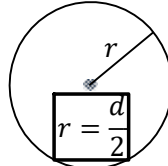
$$P = 2L + 2w$$

$\boxed{\text{units}}$



$$A = \frac{bh}{2}$$

Circle



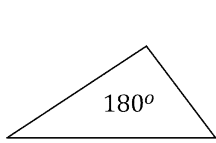
$$A = \pi r^2$$

$$C = 2\pi r$$

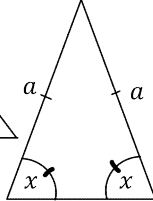
$$\boxed{C = \pi d}$$

Ellipse
(Stretched Circle)
Quadrilaterals (4)
Trapezoid (2 Parallel)
$A = \frac{(a+b)h}{2}$
Parallelogram $A = bh$
(2x2Parallel)
Rhombus
(Square Parallelogram)
Kite/Diamond
Agons
Pent 5, Hex 6
Hept 7, Oct 8
Non 9, Dec 10
Dodec 12
Regular* (Same)
Semi/Hemi (Half)

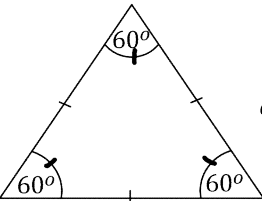
Scalene



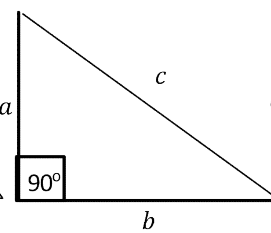
Isosceles



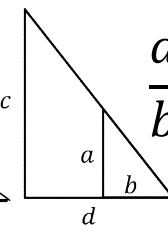
Equilateral



Right Angle



Similar



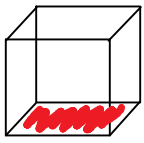
$$\frac{a}{b} = \frac{c}{d}$$

Tick Identical Lines/Angles!

$$a^2 + b^2 = c^2$$

Prisms

Cube & Rectangular



$\boxed{\text{units}^3}$

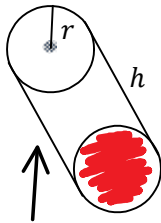
$$V = A_{\text{base}} \times h$$

(Prism: Base must be same as top)

$\boxed{\text{Shade the Base!}}$

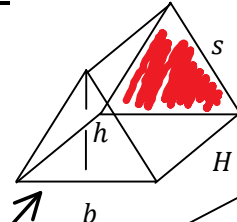
Above Prisms/Pyramids!* Combinations/Cuts!*

Cylinder

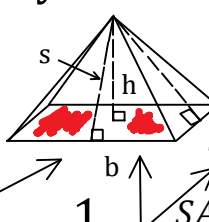


Surface Area: Lay it Flat!

Triangular Pyramid



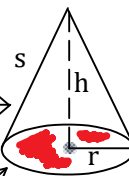
Pyramid



$$V = \frac{1}{3} A_{\text{base}} \times h$$

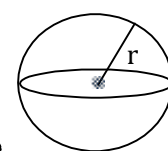
(Cone and Pyramid)

Cone



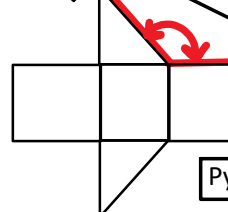
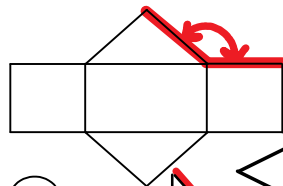
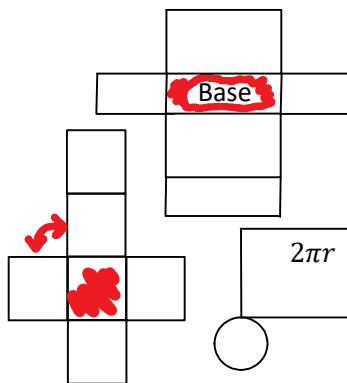
$$SA = \pi r^2 + \pi rs$$

Sphere

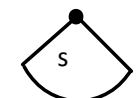
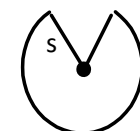
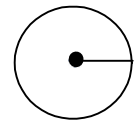


$$SA = 4\pi r^2$$

$$V = \frac{4}{3} \pi r^3$$



$\boxed{\text{Pythag!}}$



$$A = \pi rs$$