

$2^1 =$ $2^6 =$ $3^1 =$ $4^1 =$ $5^1 =$
 $2^2 =$ $2^7 =$ $3^2 =$ $4^2 =$ $5^2 =$
 $2^3 =$ $2^8 =$ $3^3 =$ $4^3 =$ $5^3 =$
 $2^4 =$ $2^9 =$ $3^4 =$ $4^4 =$ $5^4 =$
 $2^5 =$ $2^{10} =$
 $1^2 =$ $6^2 =$ $11^2 =$ $16^2 =$
 $2^2 =$ $7^2 =$ $12^2 =$ $17^2 =$
 $3^2 =$ $8^2 =$ $13^2 =$ $18^2 =$
 $4^2 =$ $9^2 =$ $14^2 =$ $19^2 =$
 $5^2 =$ $10^2 =$ $15^2 =$ $20^2 =$

$0! =$
 $1! =$
 $2! =$
 $3! =$
 $4! =$
 $5! =$
 $6! =$

 $n^1 =$
 $1^n =$
 $N^0 =$

$\frac{1}{6} =$ $\frac{1}{5} =$ $\frac{1}{8} =$
 $\frac{2}{6} =$ $\frac{2}{5} =$ $\frac{3}{8} =$
 $\frac{3}{6} =$ $\frac{3}{5} =$ $\frac{5}{8} =$
 $\frac{4}{6} =$ $\frac{4}{5} =$ $\frac{7}{8} =$
 $\frac{5}{6} =$

Put prime numbers in

$2^1 = 2$ $2^6 = 64$ $3^1 = 3$ $4^1 = 4$ $5^1 = 5$
 $2^2 = 4$ $2^7 = 128$ $3^2 = 9$ $4^2 = 16$ $5^2 = 25$
 $2^3 = 8$ $2^8 = 256$ $3^3 = 27$ $4^3 = 64$ $5^3 = 125$
 $2^4 = 16$ $2^9 = 512$ $3^4 = 81$ $4^4 = 256$ $5^4 = 625$
 $2^5 = 32$ $2^{10} = 1024$

 $1^2 = 1$ $6^2 = 36$ $11^2 = 121$ $16^2 = 256$
 $2^2 = 4$ $7^2 = 49$ $12^2 = 144$ $17^2 = 289$
 $3^2 = 9$ $8^2 = 64$ $13^2 = 169$ $18^2 = 324$
 $4^2 = 16$ $9^2 = 81$ $14^2 = 196$ $19^2 = 361$
 $5^2 = 25$ $10^2 = 100$ $15^2 = 225$ $20^2 = 400$

$0! = 1$
 $1! = 1$
 $2! = 2$
 $3! = 6$
 $4! = 24$
 $5! = 120$
 $6! = 720$

 $n^1 = n$
 $1^n = 1$
 $N^0 = 0$

$\frac{1}{6} = .16$ $\frac{1}{5} = .2$ $\frac{1}{8} = .125$
 $\frac{2}{6} = .33$ $\frac{2}{5} = .4$ $\frac{3}{8} = .375$
 $\frac{3}{6} = .5$ $\frac{3}{5} = .6$ $\frac{5}{8} = .625$
 $\frac{4}{6} = .66$ $\frac{4}{5} = .8$ $\frac{7}{8} = .875$
 $\frac{5}{6} = .83$

2	3	5	7	11	13
17	19	23	29	31	37
41	43	47	53	59	61
67	71	73	79	83	89
97	101				

Area of Circle =

Diameter of Circle =

Radius of Circle = or

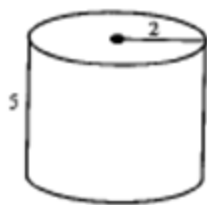
Circumference of Circle =

Degrees from Tangent and Radius =

Degrees in a Polygon =

SA of a Rectangle =

3 Special Right Triangles = _ _ _ _ _



Volume : _ _ _ _ _

Volume of Cylinder =

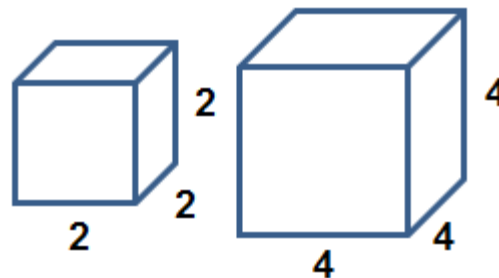
Surface Area of Cylinder =

Volume of a Box =

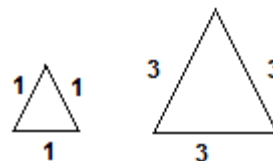
Surface Area of Box =

Volume of Cube =

Surface area of a cube =



Ratio of volume: _ _ _ _ _



Ratio of area: _ _ _ _ _

Area of Circle = πr^2

Diameter of Circle = $2r$

Radius of Circle = r or $d/2$

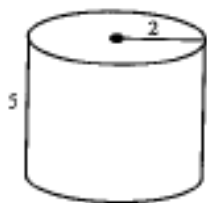
Circumference of Circle = $2\pi r$

Degrees from Tangent and Radius = 90

Degrees in a Polygon = $180(n-2)$

SA of a Rectangle =

3 Special Right Triangles = 3-4-5, 6-8-10, 9-12-15
5-12-13, 10-24-26
8-15-17



$$V = \pi r^2 h$$

$$= \pi (2)^2 5$$

$$= 20\pi$$

Volume of Cylinder = $\pi r^2 h$

Surface Area of Cylinder = $2\pi r^2 + 2\pi r h$

Volume of a Box = lwh

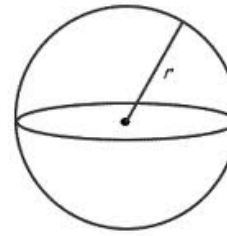
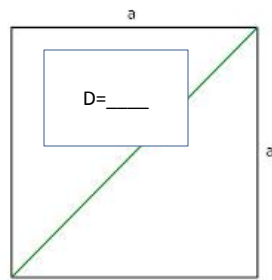
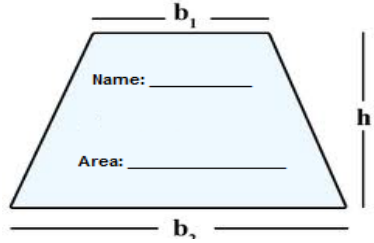
Surface Area of Box = $2lw + 2wh + 2lh$

Volume of Cube = S^3

Surface area of a cube = $6S^2$

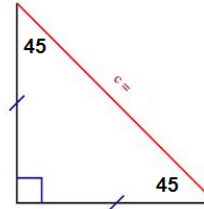
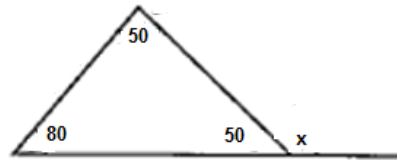
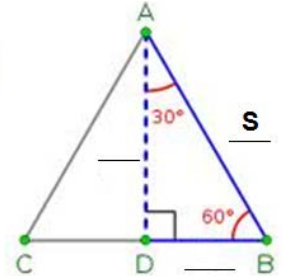
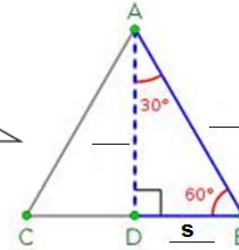
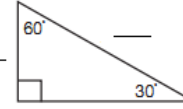
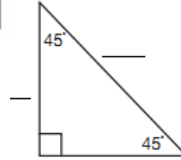
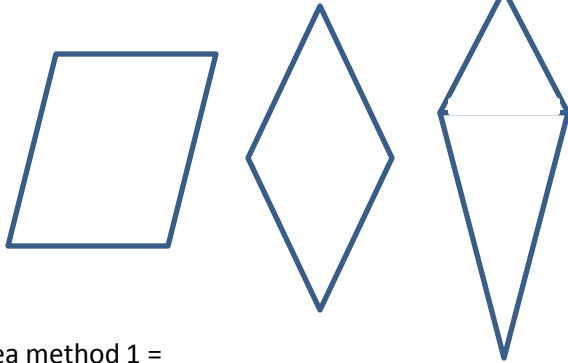
If two similar triangles have corresponding side lengths in ratio $a:b$, then their areas will be in the ratio $a^2:b^2$

For similar solids with sides in ratio $a:b$ their volumes will be $a^3:b^3$ (note, cubed, not squares)



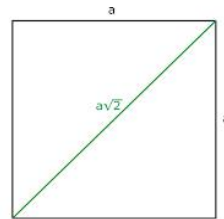
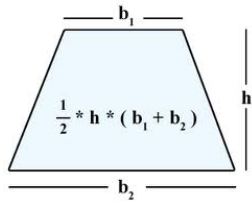
Volume: _____

Surface Area _____



Area method 1 = _____

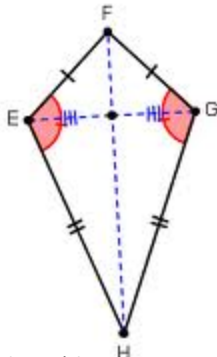
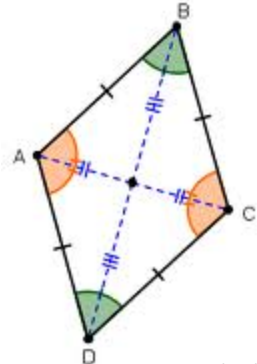
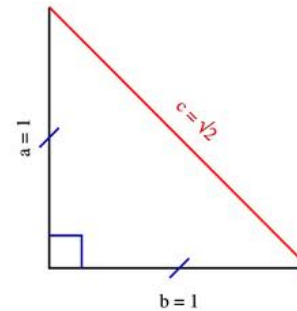
Area method 2 = _____



Sphere

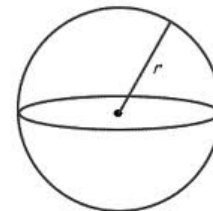
Surface Area

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



Area method 1 = base * height

Area method 2 = (d1 * d2) / 2



Volume

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

