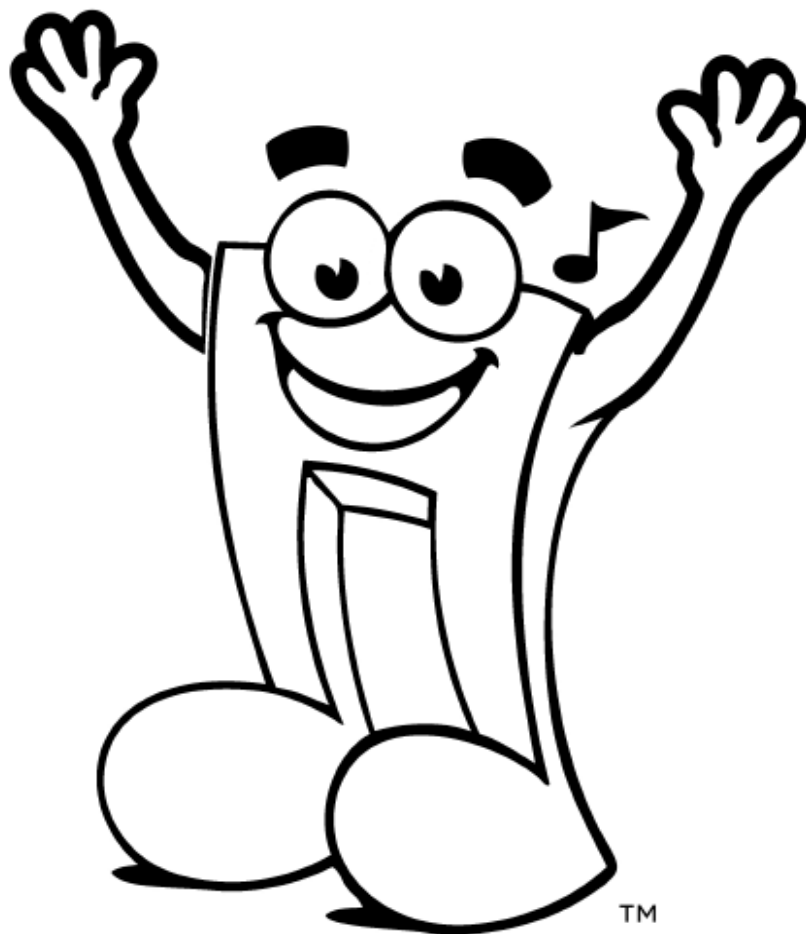


# Singin' & Signin'®



Siegrid Stillman

[sig@nickynote.com](mailto:sig@nickynote.com)

Visit us on our website [www.Nickynote.com](http://www.Nickynote.com)

or on [Teachers Pay Teachers](#) !

# Distance/Rate/Time

$$d = r \bullet t$$



*Jingle Bells*

*r times t,*

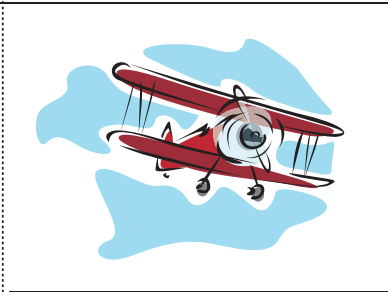
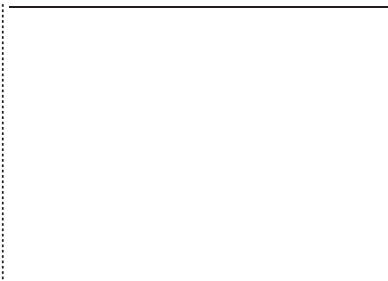
*r times t,*

*r times t is d.*

Distance equals rate times time.

*r times t is d!*

$$d = r \cdot t$$



$$r \cdot t = d$$

**Distance  
Rate & Time**

# Key Terms of Problem Solving

$+$ ,  $-$ ,  $\times$ ,  $\div$



*When Johnny Comes Marching Home Again*

The total, together, the sum, in all?

You Add, you Add!

The difference, the change, how many more?

Subtract, Subtract!

To find the product, how many times?

Join equal groups, just Multiply!

How much in each group?

The quotient? You must Divide!

**Key Terms  
of  
Problem  
Solving**

**Total  
Together  
Sum  
In All**

**Add +**

**Left  
Difference  
Change  
More Than  
Less Than**

**Subtract –**

**Product  
Times  
Join Equal  
Groups**

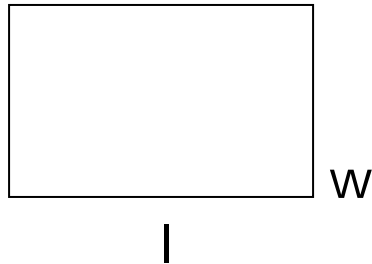
**Multiply X**

**Quotient  
Equal Groups  
In Each  
Group**

**Divide ÷**

# Area of a Rectangle

$$A = l \times w$$



*Frere Jacques*

Area of a Rectangle is

Length times Width,

Length times Width.

Measure up both sides,

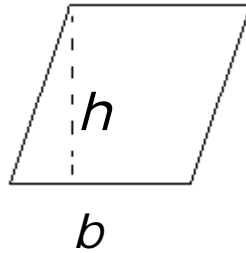
Then you multiply,

Length times Width,

Length times Width!

# Area of a Parallelogram

$$A = b \times h$$



*Ring Around the Roses*

A Parallelogram's

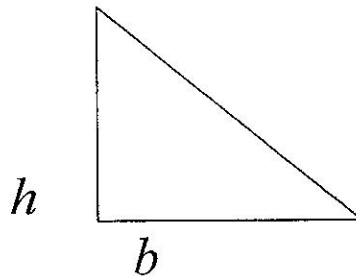
Area is simple:

Multiply the

Base times Height!

# Area of a Triangle

$$A = \frac{b \cdot h}{2} \quad A = \frac{1}{2} b h$$



*Old MacDonald*

The Area of a Triangle is

Base times Height by two.

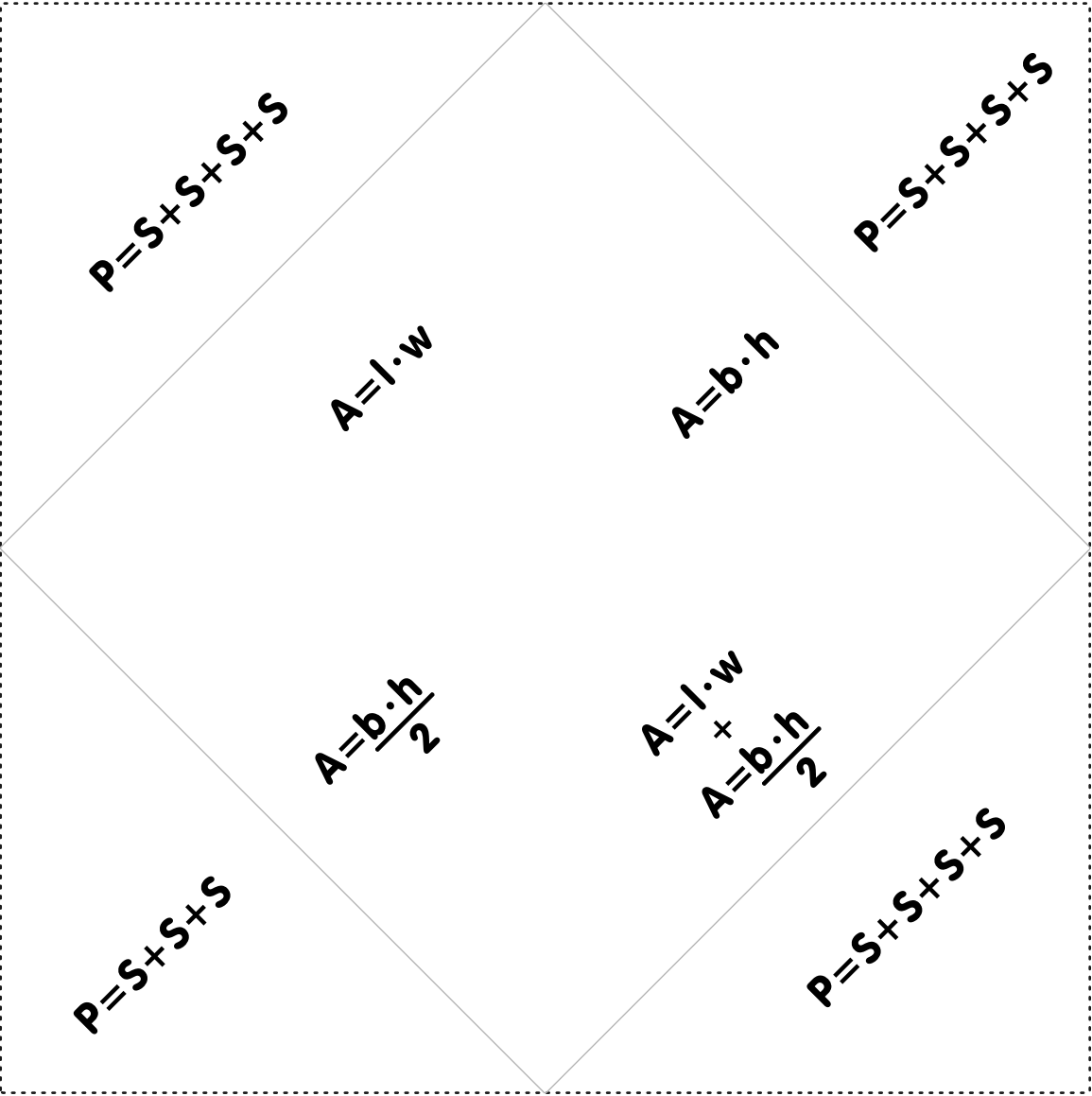
Multiply the base times height, then divide by two.

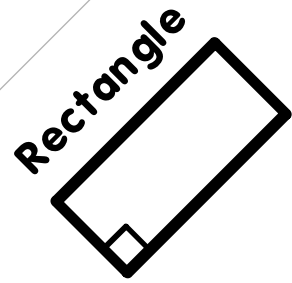
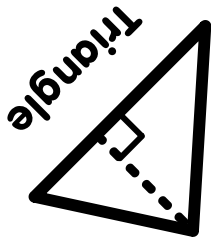
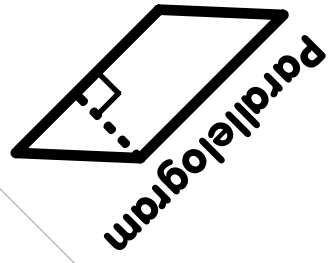
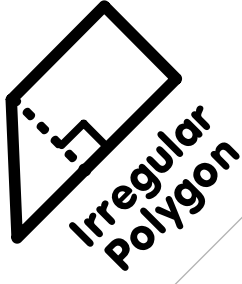
Divide by two, divide by two,

Multiply and divide by two.

Area of a triangle is base times height by two!

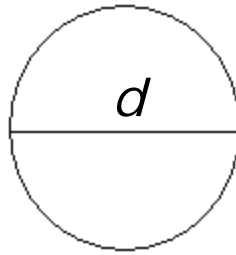






# Circumference of a Circle

$$C = d \times \pi$$



*Farmer in the Dell*

d times Pi is C,

d times Pi is C,

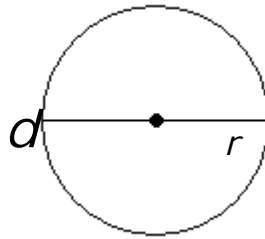
Circumference of a Circle is,

d times Pi is C!

# Radius of a Circle

$$2r = d$$

$$\frac{d}{2} = r$$



*Row, Row, Row Your Boat*

Two, two, two times r,

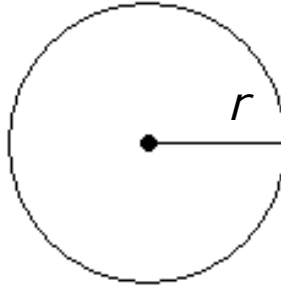
Two times r is d!

Take the diameter, cut it in half,

Two times r is d!

# Area of a Circle

$$A = \pi r^2$$



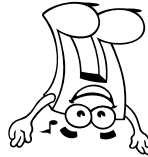
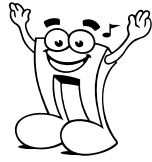
*Mary Had a Little Lamb*

Area is Pi  $r$  squared,  
Pi  $r$  squared, Pi  $r$  squared,

Area is Pi  $r$  squared,

Area of a Circle!

Circles



Circles

A

$\pi$

C

$2r$



d

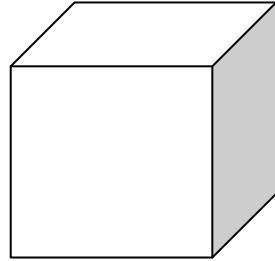
$d\pi$

$\pi r^2$

3.14

# Volume of a Cube

$$V = s^3$$



$s$



If You're Happy and You Know it

If you want to find the volume of a cube *(clap! clap!)*

If you want to find the volume of a cube *(clap! clap!)*

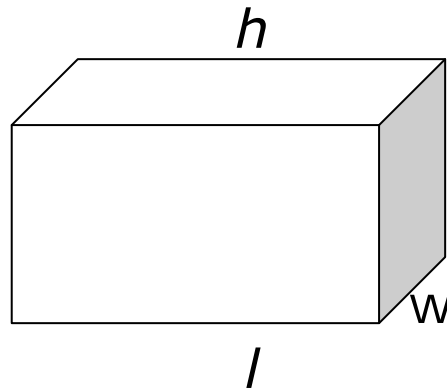
First you measure up a side,

Then three times you multiply,

If you want to find the volume of a cube *(clap! clap!)*

# Volume of a Rectangular Prism

$$V = l \cdot w \cdot h$$



*Bingo*

The Volume of a Rectangular Prism is so easy!

Length times width times height,

Length times width times height,

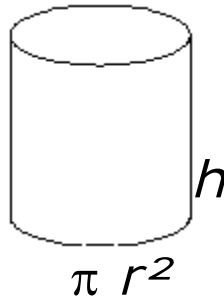
Length times width times height,

A Rectangular Prism!



# Volume of a Cylinder

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



*Three Blind Mice*

Volume of \_\_\_a cylinder

Volume of \_\_\_a cylinder

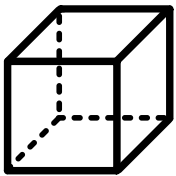
First you find the area

Of the circle on the base

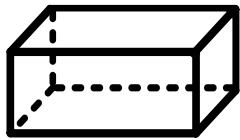
Multiply it by the height.

Volume of \_\_\_a cylinder!

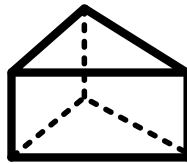
**cube**



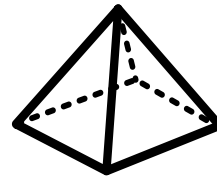
**rectangular  
prism**



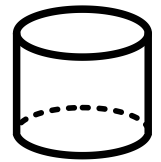
**triangular  
prism**



**pyramid**



**cylinder**



$$V = s^3$$

$$V = l \cdot w \cdot h$$

$$V = \frac{l \cdot w \cdot h}{2}$$

$$V = \frac{l \cdot w \cdot h}{3}$$

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

# **Volume of Solids**