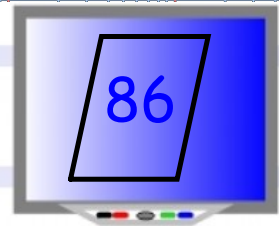
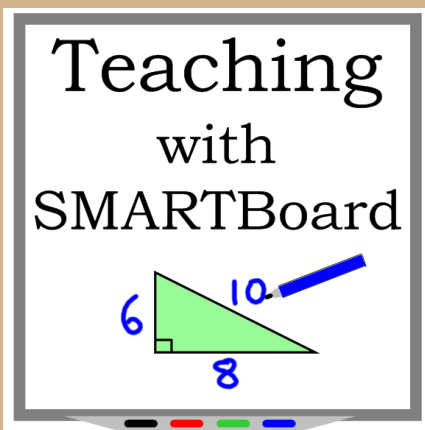


Teaching with SMARTBoard



Sort the Category (Named and Unnamed Categories)

smartboardguys@teachingwithsmartboard.com



Hosted by
Scott Miller
and
David Sladkey

teachingwithsmartboard.com



[itunes](#)



#86

Teaching Template
Category Sorting

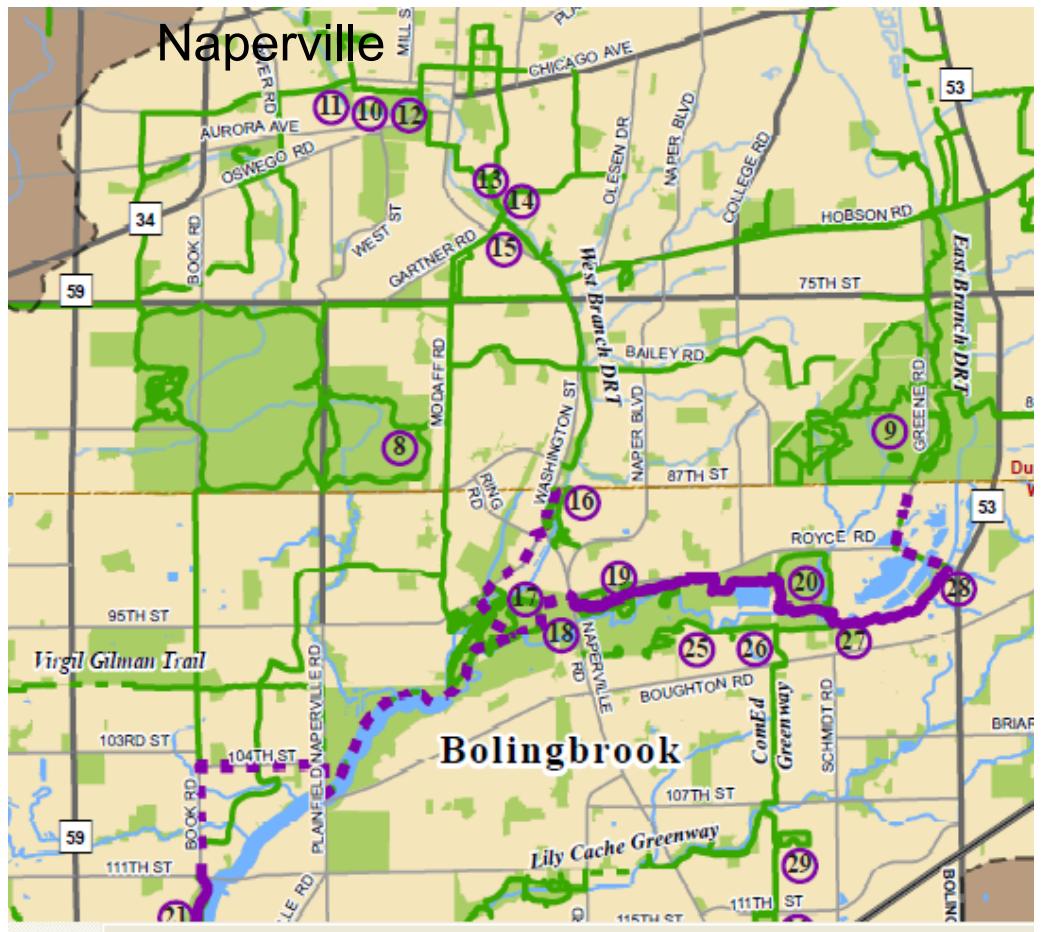
M Unnamed categories

N Named categories

Screen Capture Uses



DUPAGE
RIVER
BIKE
TRAIL



Sort these into three categories
Name the categories

category 3

category 2

category 2

category 1

category 1

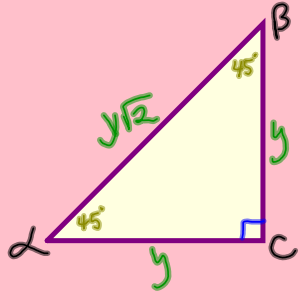
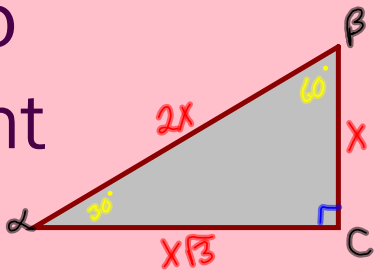
category 3

category 3

category 1

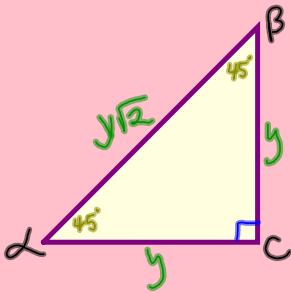
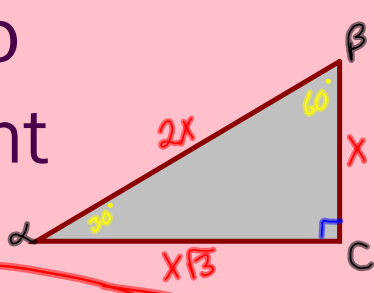
category 2

Sort these into three equivalent categories

- | | | |
|----------------------|-----------------|----------------------|
| $\frac{\sqrt{3}}{2}$ | $\cos 45^\circ$ | $\frac{1}{\sqrt{2}}$ |
| $\sin 45^\circ$ | $\cos 30^\circ$ | |
| $\sin 30^\circ$ | $\sin 60^\circ$ | $\frac{1}{2}$ |
| | | $\cos 60^\circ$ |

Sort these into three equivalent categories

Key

$$\begin{array}{l} \cos 60^\circ \quad \underline{1} \\ \sin 30^\circ \quad 2 \end{array}$$

$$\begin{array}{l} \sin 45^\circ \quad \cos 45^\circ \\ \underline{1} \\ \sqrt{2} \end{array}$$

$$\begin{array}{l} \cos 30^\circ \quad \underline{\sqrt{3}} \\ \sin 60^\circ \quad 2 \end{array}$$

Sort these into three categories

$$\sin\left(\frac{3\pi}{4}\right)$$

$$\sin\left(\frac{5\pi}{6}\right)$$

$$\tan\left(\frac{\pi}{2}\right)$$

$$\cos\left(\frac{7\pi}{4}\right)$$

$$\cot(2\pi)$$

$$\cos\left(\frac{\pi}{4}\right)$$

$$\tan\left(\frac{3\pi}{2}\right)$$

$$\cos\left(\frac{\pi}{3}\right)$$

$$\sin\left(\frac{\pi}{6}\right)$$

Sort these into three categories

$$\begin{array}{l} \sin\left(\frac{3\pi}{4}\right) \\ \cos\left(\frac{\pi}{4}\right) \\ \cos\left(\frac{7\pi}{4}\right) \end{array}$$

Key

$$\begin{array}{l} \sin\left(\frac{5\pi}{6}\right) \\ \cos\left(\frac{\pi}{3}\right) \\ \sin\left(\frac{\pi}{6}\right) \end{array}$$

$$\begin{array}{l} \tan\left(\frac{3\pi}{2}\right) \\ \tan\left(\frac{\pi}{2}\right) \\ \cot\left(2\pi\right) \end{array}$$

Sort these into three categories

dog

thin

or

and

green

house

street

large

but

Sort these into three categories

Key

and

or

but

Conjunction

dog

house

street

Noun

Adjective

large

thin

green

Sort items into three categories
The categories are included

item C2 **item C1** **item B3**

item B1 **Category C** **item A2**

item B2 **item A3** **Category B**

Category A **item A1** **item C3**

Sort items into three categories
The categories are included

$$\begin{array}{ccc} 7 & -x = -4 & x + 7 - x \\ & 4 & \\ 3x = 12 & & \\ 5x - x & 5 = x + 1 & 4x \\ 3(x - 1) + 3 + x & & x - 3 = 4 \\ & 2x = 14 & \end{array}$$

Sort items into three categories
The categories are included

$$-x = -4 \quad 4 \quad 5 = x + 1$$
$$3x = 12$$

Key

$$2x = 14$$

7

$$x - 3 = 4$$

$$x + 7 - x$$

$$3(x - 1) + 3 + x$$

$$5x - x$$

$$-(-x - 3x)$$

4x

Sort items into three categories
The categories are included

$$a + (b + c) = (a + b) + c$$

Commutative Property $3(4*2) = (3*4)2$

$$2 + x = x + 2 \quad -5 - x = -x - 5$$

$$x(y*z) = (x*y)*z \quad -3(x - 5) = -3x + 15$$

$$-(3x - 2) = -3x + 6$$

Distributive Property

$$q*3 = 3q$$

Associative Property

$$6(x + 8) = 6x + 48$$

Sort items into three categories
The categories are included

item C2 **item C1** **item B3**

item B1 **Category C** **item A2**

item B2 **item A3** **Category B**

Category A **item A1** **item C3**

Sort these into three categories
nouns, conjunctions, adverbs

dog

thin

or

and

green

large

house

street

but

Sort these into three categories

Key

and

or

but

Conjunction

dog

house

street

Noun

Adjective

large

thin

green

<http://www.jokesclean.com/OneLiner/>



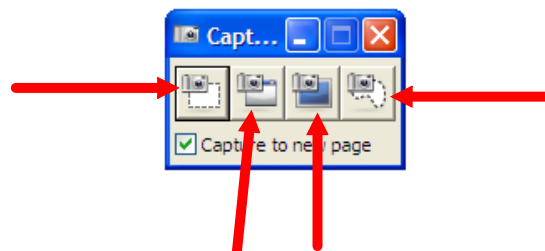
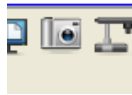
What do you call a fly without wings?

A Walk.

What happens if a parsley farmer is sued?

They garnish his wages.

Screen Capture Tricks



open window
click and drag a box

whole page
free style

Find the matching pairs

$$a^{\log_a m}$$

0

1

r

$$\log_b b$$

$$\log_b 1$$

M

$$\log_b b^r$$

Solve in two ways

$$3x - 1 = 2x - 4$$

<http://illuminations.nctm.org/ActivityDetail.aspx?id=195>

Cone View

Graph View

Cone Parameters:
Height: 1
Slant: 1

Plane Parameters:
 m : 1
 b : -0.2

Additional Controls:
Reset Parameters
Default Colors

Match the Name with the Picture

Scott@teachingwithsmartboard.com



Dave@teachingwithsmartboard.com

[Home Page](#)