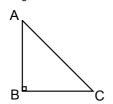
The Primary Trig Ratios			
Learning Goal			

#### Minds on Math

1. Which of the following sides would you say is adjacent to angle C?



ΑB



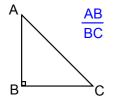
BC AC



adj hyp

## Minds on Math

2. Relative to angle C, which of the following represents the ratio of *opposite* to *hypotenuse*?



 $\overline{\mathsf{AC}}$ 

AC

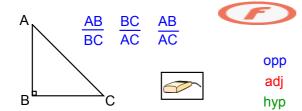


opp
adj
hvn

hyp

#### Minds on Math

3. Which of the following would represent the *tangent* of angle C?

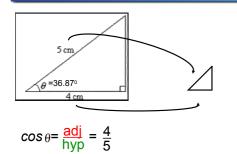


#### Minds on Math

4. Which trig ratio could be used to represent the ratio between the sides shown? ( $\theta$  = "theta"; a symbol denoting angles)

$$sin =$$
 $cos =$ 
 $tan =$ 
 $tan$ 

## Mini-Lesson!



Calculator: 36.87 cos What'd you get?

## Mini-Lesson!

Draw two triangles that would represent this

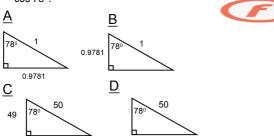
trig expression:		

Calculator: 57.80 sin What'd you get?

 $sin_{\theta} = \frac{opp}{hyp} = \frac{11}{13}$ 

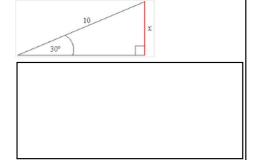
## Minds on Math: Check Your Understanding

5. Which two situations correctly displays the meaning of cos 78°?



## Mini-Lesson 2

E.g., 1. Solve for the missing side length.



Calculator:

opp adj hyp

Mini-Lesson 2				
E.g., 2. Solve for the missing side length.	Calculator:			
35°				
1) Label sides and choose a trig	opp			
ratio 2) Calculate the ratio as a decimal to 4 decimal places	adj hyp			
Set up a proportion and solve				
	l			
Minds on Math				
4. Which correctly depicts an angle of depressionA or B?				
A B				
object				
opject				

# Practice