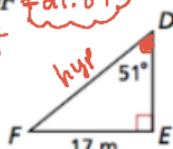
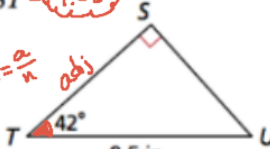


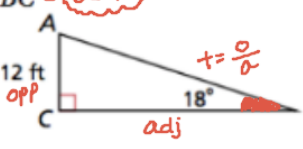
# Trigonometric Ratios Worksheet

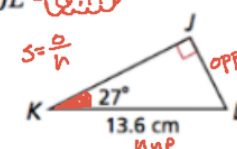
Key

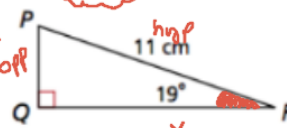
Find each length. Round to the nearest hundredth.

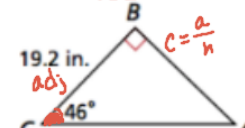
1.  $DF = 21.87$   
 $s = \frac{o}{h}$   
  
 $\sin 51^\circ = \frac{17}{x}$

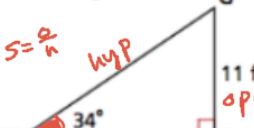
2.  $ST = 7.06$   
 $c = \frac{o}{a}$   
  
 $\cos 42^\circ = \frac{x}{9.5}$

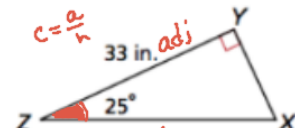
3.  $BC = 36.93$   
 $t = \frac{o}{a}$   
  
 $\tan 18^\circ = \frac{12}{x}$

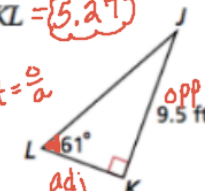
4.  $JL = 6.17$   
 $s = \frac{o}{h}$   
  
 $\sin 27^\circ = \frac{x}{13.6}$

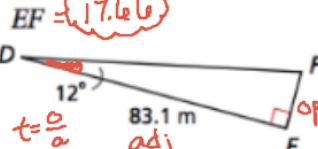
5.  $PQ = 3.58$   
 $s = \frac{o}{h}$   
  
 $\sin 19^\circ = \frac{x}{11}$

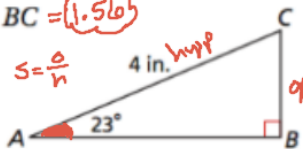
6.  $AC = 27.64$   
 $c = \frac{o}{a}$   
  
 $\cos 46^\circ = \frac{19.2}{x}$

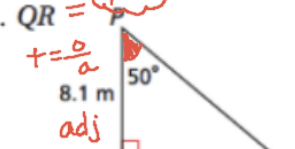
7.  $GH = 19.67$   
 $s = \frac{o}{h}$   
  
 $\sin 34^\circ = \frac{11}{x}$

8.  $XZ = 36.41$   
 $c = \frac{o}{a}$   
  
 $\cos 25^\circ = \frac{33}{x}$

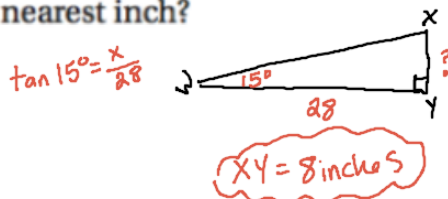
9.  $KL = 5.27$   
 $t = \frac{o}{a}$   
  
 $\tan 61^\circ = \frac{9.5}{x}$

10.  $EF = 17.66$   
 $t = \frac{o}{a}$   
  
 $\tan 12^\circ = \frac{x}{83.1}$

11.  $BC = 1.56$   
 $s = \frac{o}{h}$   
  
 $\sin 23^\circ = \frac{x}{4}$

12.  $QR = 9.65$   
 $t = \frac{o}{a}$   
  
 $\tan 50^\circ = \frac{x}{8.1}$

13. **Architecture** A pediment has a pitch of  $15^\circ$ , as shown. If the width of the pediment,  $WZ$ , is 56 ft, what is  $XY$  to the nearest inch?



14. **Sports** A jump ramp for waterskiing makes an angle of  $15^\circ$  with the surface of the water. The ramp rises 1.58 m above the surface. What is the length of the ramp to the nearest hundredth of a meter?

$\sin 15^\circ = \frac{1.58}{x}$   
 $6.10 \text{ meters}$



