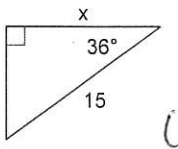
Secondary Math 2

Name Key

11.2 Finding a Missing Side

Date _____ Hour ____

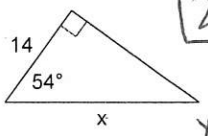
Find the missing side. Round to the nearest tenth.

1) 

12.1

$\cos 36 = \frac{x}{15}$

$x = 15\cos 36 = 12.1$

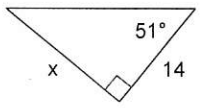
2) 

23.8

$x \cdot \cos 54 = \frac{14}{x} \cdot x$

$\frac{x\cos 54}{\cos 54} = \frac{14}{\cos 54}$

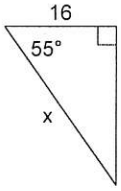
$x = 23.8$

3) 

17.3

$14 \cdot \tan 51 = \frac{x}{14} \cdot 14$

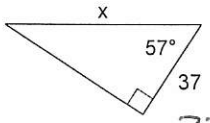
$x = 17.3$

4) 

27.9

$\cos 55 = \frac{16}{x}$

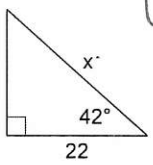
$x = \frac{16}{\cos 55} = 27.9$

5) 

67.9

$\cos 57 = \frac{37}{x}$

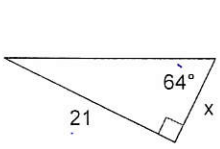
$\frac{37}{\cos 57}$

6) 

29.6

$\cos 42 = \frac{22}{x}$

$\frac{22}{\cos 42} = 29.6$

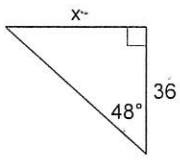
7) 

10.2

$\tan 64 = \frac{21}{x}$

$\frac{21}{\tan 64} = x$

$10.2 = x$

8) 

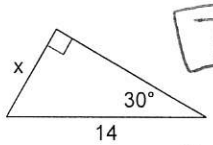
40

$\tan 48 = \frac{x}{36}$

$36 \tan 48 = x$

$= 40$

39.98

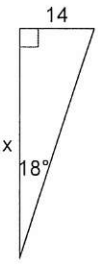
9) 

7

$\sin 30 = \frac{x}{14}$

$14 \sin 30 = x$

$7 = x$

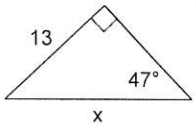
10) 

43.1

$\tan 18 = \frac{14}{x}$

$\frac{14}{\tan 18} = x$

$43.08 = x$

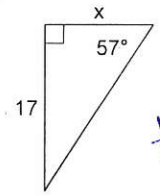
11) 

17.8

$x \cdot \sin 47 = \frac{13}{x} \cdot x$

$\frac{x \sin 47}{\sin 47} = \frac{13}{\sin 47}$

$x = 17.875$

12) 

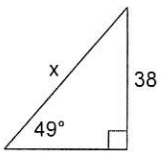
11

$\tan 57 = \frac{17}{x}$

$\frac{17}{\tan 57} = x$

$11 = x$

11.0399

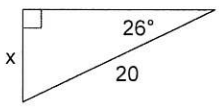
13) 

50.4

$\sin 49 = \frac{38}{x}$

$\frac{38}{\sin 49} = x$

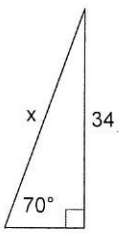
$50.35 = x$

14) 

8.8

$20 \sin 26 = \frac{x}{20} \cdot 20$

$x = 8.767$

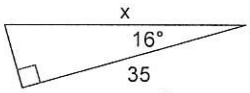
15) 

36.2

$\sin 70 = \frac{34}{x}$

$\frac{34}{\sin 70} = x$

$36.18 = x$

16) 

36.4

$\cos 16 = \frac{35}{x}$

$\frac{35}{\cos 16} = x$

$36.4 = x$