Cryptic Quiz

1. What is the opposite of a professional eater?

$\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$
  8.8   19.6   18.5   8.8   10.9   8.8   3.3   9.8   70.7   1.4   70.7   14.5

2. How would you describe a job in the Acme Mitten Co. shipping department?

$\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$
  22.4   16.1   19.2   5   19.6   6   68   6   8   16.1   9.2   70.7   6.3

3. What can be right but never wrong?

$\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$ $\overline{\rule{1em}{0.4pt}}$
  8.8   19.6   7.4   8.8   19.6   6   8   70.7

For each exercise, find the missing length. (Refer to the diagram at the right.) Round your answer to the nearest tenth (if necessary) and find it in the code. Each time the answer appears, write the letter of the exercise above it.
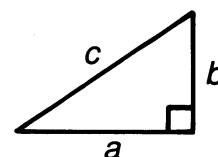
c b a

(H) $a = 9$, $b = 4$, $c =$ _____

(O) $a = 8$, $b = 14$, $c =$ _____

(S) $a =$ _____, $b = 3$, $c = 7$

(M) $a =$ _____, $b = 5$, $c = 12$

(G) $a =$ _____, $b = 8$, $c = 10$

(C) $a = 5$, $b =$ _____, $c = 6$

(R) $a = 4$, $b =$ _____, $c = 15$

(I) $a = 12$, $b =$ _____, $c = 13$

(E) $a = 50$, $b = 50$, $c =$ _____

(B) $a =$ _____, $b = 20$, $c = 30$

(V) $a = 6$, $b =$ _____, $c = 11$

(W) $a = 1$, $b = 1$, $c =$ _____

(X) $a =$ _____, $b = 16$, $c = 25$
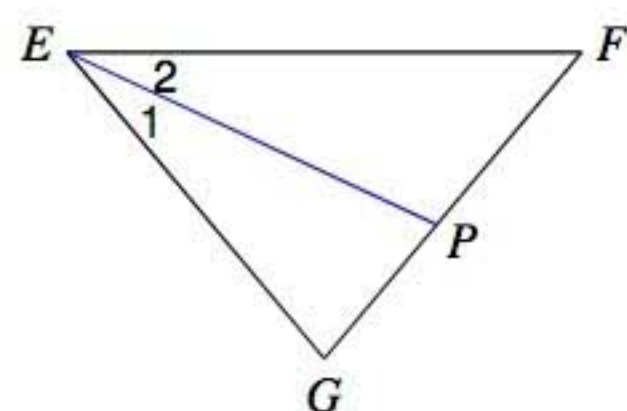
(A) $a = 2$, $b =$ _____, $c = 9$

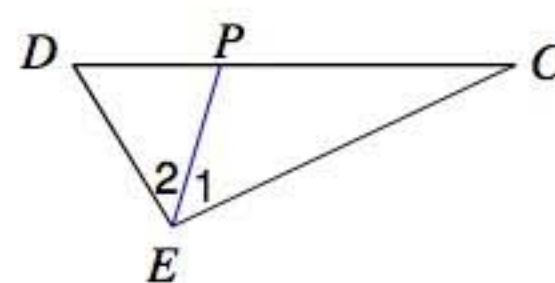(L) $a =$ _____, $b = 15$, $c = 17$

(N) $a = 10$, $b =$ _____, $c = 22$

Angle bisectors

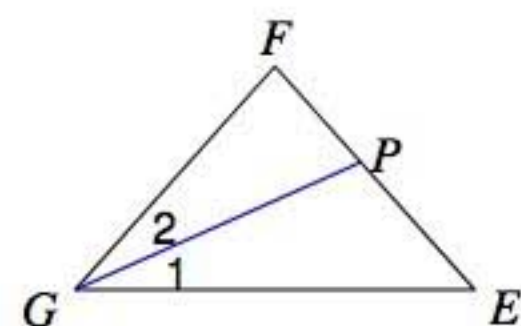**Each figure shows a triangle with one of it's angles bisected. The bisected angles are marked as 1 and 2.**
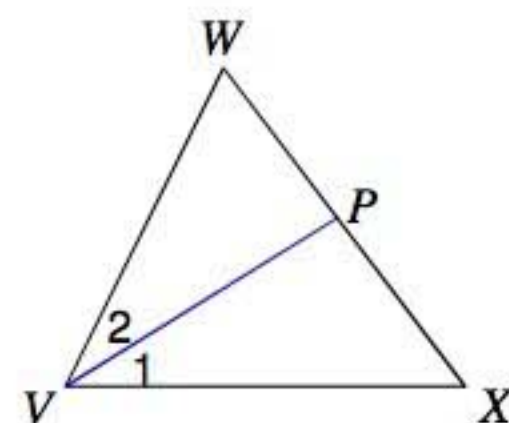
1) Find $m\angle 1$ if $m\angle 2 = 25°$.
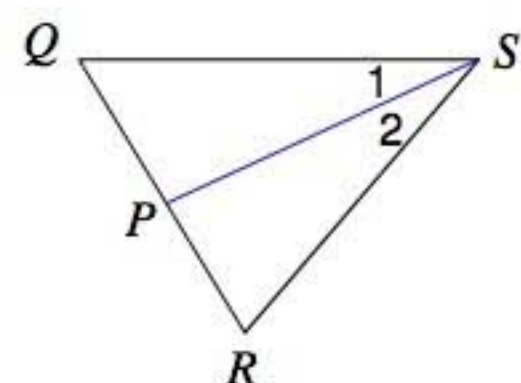
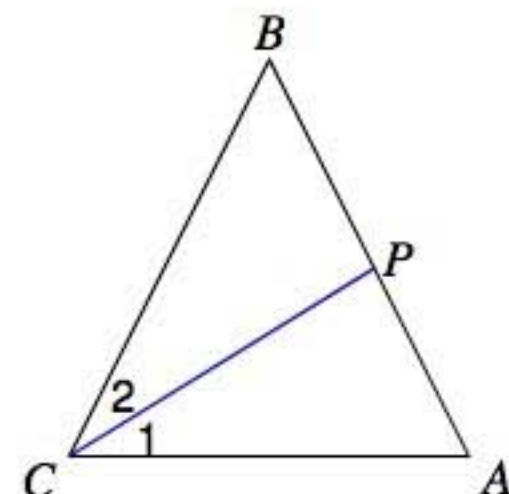2) $m\angle CED = 96°$. Find $m\angle 1$.

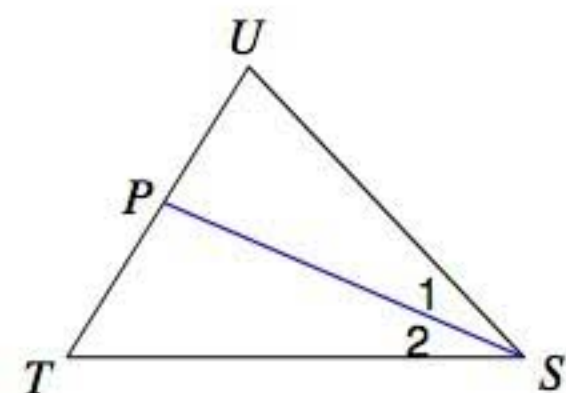3) Find $m\angle 1$ if $m\angle EGF = 48°$.

4) Find $m\angle 2$ if $m\angle XVW = 64°$.

5) $m\angle 1 = 24°$. Find $m\angle 2$.
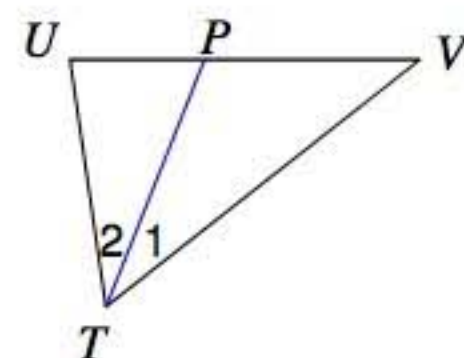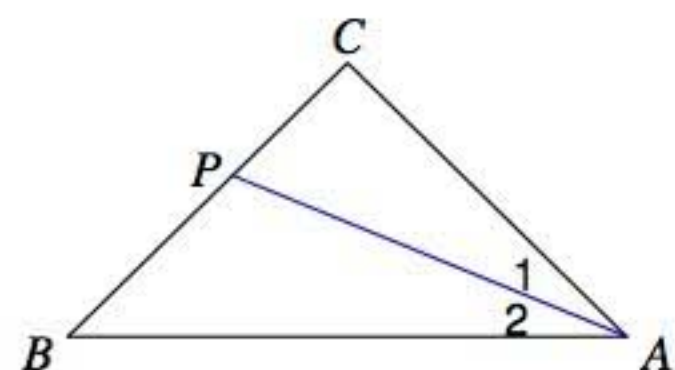
6) Find $m\angle ACB$ if $m\angle 2 = 31°$.

7) Find $m\angle UST$ if $m\angle 2 = 23°$.

8) $m\angle 2 = 30°$. Find $m\angle 1$.

9) $m\angle 2 = 22°$. Find $m\angle CAB$.

10) Find $m\angle 1$ if $m\angle XVW = 76°$.