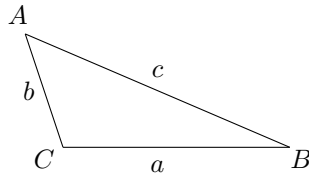
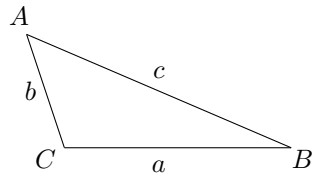


Complete as many of the following problems as you can with your table. You do not have to go in order. If **your entire group** finishes early, and your answers have been checked, you may leave early.



1. If $a = 3$, $b = 1$, and $c = 3$, find $\angle B$

2. If $\angle C = 40^\circ$, $b = 3$, and $a = 5$, find c .



3. If $\angle A = 60^\circ$, $\angle B = 45^\circ$, and $a = 12$ cm, find b .

4. If $\angle B = 100^\circ$, $\angle C = 30^\circ$, and $c = 10$ cm, find a .

Key:

1. $\cos^{-1}\left(\frac{17}{18}\right)$

2. $\sqrt{34 - 30 \cos(40^\circ)}$

3. $4\sqrt{6}$ cm

4. $20 \sin(50^\circ)$ cm