Indirect Measurement Extra Practice

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For each question,	, araw ana label	a ulagrami	i men use p	or oportions to solve.

1.) If a 4-meter flagpole casts a shadow of 6 meters at the same time that a nearby building casts a 24-meter shadow, how tall is the building?

2.) If five-foot-tall Madeleine casts a <u>84-inch</u> shadow, then how tall is her friend if he has a shadow at the same time which is one foot shorter than hers? Round to the nearest tenth.

3.) A rope from the tip of a flagpole reaches all the way down to the end of the flagpole shadow, a distance of 10 meters. The length of the shadow is 6 meters. How tall is the nearby football goal post if it has a shadow of 4 meters? Round to the nearest tenth.

4.) One overcast day, Amanda needed to calculate the height of a window in a nearby building. Since there were no shadows available, she decided to use mirrors. Amanda positioned a mirror on the ground between herself and the building in such a way that when she looked into the mirror while standing upright, she was looking at the window's reflection. If the mirror was 122 cm from her feet and 732 cm from the base of the building and her eyes are 182 above the ground, how high up on the building was the window? Round to the nearest tenth.

a.) What is the J	perimeter of the la	arger triangle?			
b.) What is the ra	tio of the perimete	r of the small tria	ngle to the perir	neter of the large tria	angle?
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