## Geometry review for quiz 6-1 to 6-3

1.) A 3-inch by 5 -inch photo set vertically (taller than it is wide), in enlarged to make a poster 27 inches wide. How tall is the poster?

2.) The perimeter of a rectangle is 218 cm . The ratio of the length to width is $7: 3$. Find the width of the rectangle.


$$
\begin{aligned}
& 7 x+7 x+\frac{w}{3 x+1} \\
& \frac{20 x-2}{12} \frac{218}{20} \\
& x=10.9 \\
& 3 x=218
\end{aligned}
$$

3.) A person who is 6 feet tall casts a shadow that is 5 feet long. At the same time, a flagpole casts a shadow that is 22 feet long. how long is the flagpole?


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5.) If $\triangle A B C \subset \triangle D E C$, find $x$ and the scale factor of $\triangle A B C$ to
$\triangle D E C$.


