1. You want to draw a scale drawing of your calculator. The calculator is 8 in long and you want to draw the calculator five times bigger. How big should you draw the calculator?

$$
8.5=40 \mathrm{in}
$$

2. You now want to take the same calculator, but now you want to make it $3 / 4$ of the size. How big should you draw the calculator?
3. The two shapes are similar.

Find the missing side length


$$
\begin{gathered}
\frac{20}{x}=\frac{15}{9} \\
\frac{15 x}{15}=\frac{180}{15} . \\
x=12 \mathrm{in}
\end{gathered}
$$

## Percent Proportions

## How to solve percent problems using proportions



## What is 20 (2) of 34 ?

$$
\begin{aligned}
& \frac{\text { is }}{\text { of }}=\frac{\%}{100} \\
& \frac{x}{34} \neq \frac{20}{100} \\
& \frac{10 x}{10}=\frac{68}{10} \\
& x=6.8
\end{aligned}
$$

17 is $43 \%$ of what number?

$$
\begin{aligned}
& \frac{\text { is }}{\text { of }}=\frac{\%}{100} \\
& \frac{17}{x}=\frac{43}{100} \\
& \frac{43 x}{43}=\frac{1700}{43} \\
& x=39.53(4) 88372 \\
& x=39.53
\end{aligned}
$$




