Recall, similar objects are two or more 3-D objects that have proportional dimensions.
Example 1: Are the following frying pans similar?

| Diameter | Depth | Handle Length |
| :---: | :---: | :---: |
| 30 | 6 | 24 |
| 20 | 4 | 16 |
| $\frac{30}{20}=1.5$ | $\frac{6}{4}=1.5$ | $\frac{24}{16}=1.5$ |

All vitoria are the same scale factor so are similar.
Example 2: Robert bought a toy tractor for his brother and it has dimensions 9.5 cm wide by 19.1 cm long by 12.7 cm high. The scale ratio on the package is $1: 16$. What are the dimensions on the actual tractor?



$$
x=16(9.5)=152
$$


$x=16(12.7)$
$=203.2$


$$
\begin{aligned}
& x=16(99.1) \\
& x=305.6
\end{aligned}
$$

