

## Scale Diagrams: Day 2 Warm Up March 29

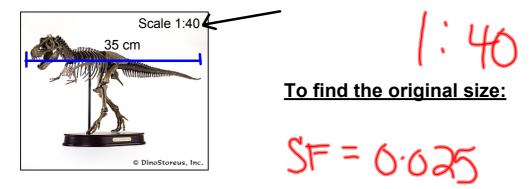


1) An original photo of a cat has dimensions 18 cm by 40.5 cm. A second pictures is made using a scale factor of 0.4. Determine the dimensions of the scaled picture. (Show your work)

Is this an enlargement or a reduction?

To find lengths of the scale picture:

2) The following is a scale diagram of "Sue" the T-Rex. Using the ratio determine the true length of Sue



SUE IS A SENSATION. It's not just that she's 42 feet long (14 m) and 65 million years old. She's the world's most complete, best preserved, and largest *Tyrannosaurus rex* skeleton. More than 10,000 visitors went to her May 17, 2000, debut at Chicago's Field Museum of Natural History.



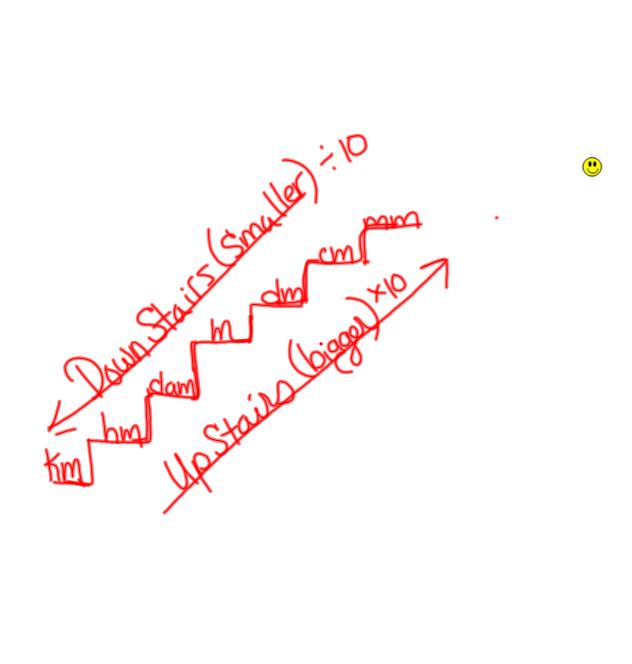
Scale Factor = <u>Length of Scale Diagram</u> Length of Original Diagram

## To find lengths of the scale picture:

original x scale factor

## To find the original size:

Scale + Scale factor





Find the Scale FACTOR

Must have same units