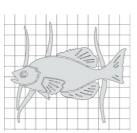


Scale Diagrams:





A diagram that is an enlargement or reduction of another diagram.

The measurements in each diagram are compared.



Scale Factor =

Length of Scale Diagram
Length of Original Diagram



The scale factor can be written as a fraction or decimal.

S.F. = S

If the **scale factor** is <u>less than one</u>, the diagram is a <u>reduction</u>,

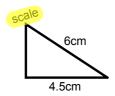
A scale factor <u>larger than one</u> indicates the diagram is an <u>enlargement</u>.

7.1 and 7.2 Scale diagrams_enlargements & reductions.notebook

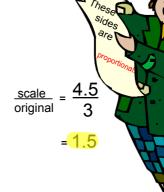
When pairs of corresponding lengths have the same scale factor, we say that the $\,$

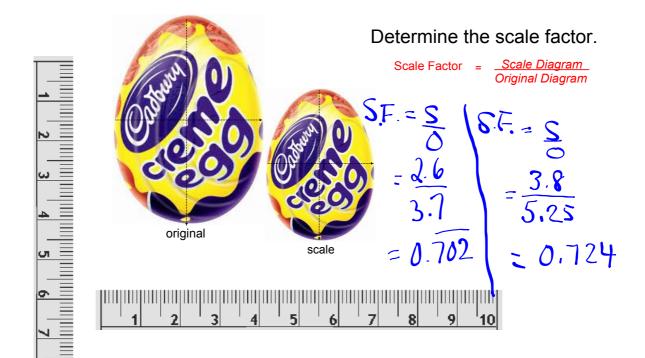
corresponding lengths are proportional.



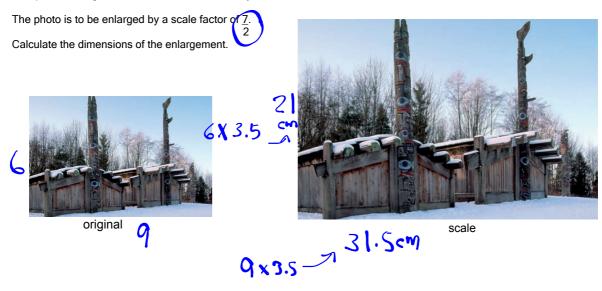


$$\frac{\text{scale}}{\text{original}} = \frac{6}{4}$$





This photo of longhouses has dimensions 9 cm by 6 cm.



Sometimes you are only given the scale diagram....

A scale may be given as a ratio.

The scale on this scale diagram of a house is 1:150.

This means that 1cm on the diagram represents 150 cm or 1.5m on the house.

How wide is the actual house??

