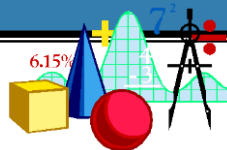


Mathematics, Grade 7
Unit IX: Lesson 4

Poster: **Blow Up**



Many copy machines enlarge and reduce pictures by percentages. A microscope enlarges an image by a certain percent. An artist will often enlarge or reduce pictures by using a grid system. You will need to review scale drawings and calculating percent.

Select a picture you would like to enlarge. Make a digital copy of your picture. Use a projector to display your picture and trace it on poster paper. Calculate the percent of enlargement.

Display the poster along with the original picture and state the percent the picture has been enlarged and how you calculated it.

Extension: *Select a picture you wish to enlarge or reduce. Draw a grid on the original picture. Decide the percent you will enlarge or reduce the original. On the paper where your copy will be drawn, draw a grid according to the percent you want to enlarge by. Draw the grids lightly so they can be erased when done. Display your finished product and explain how you did it.*