



Understanding Scale

In Science class you will view bacteria under a microscope using 4x, 10x, and 40x objectives for magnifications. To understand these scales, complete the following.

$$1 \text{ inch} = 2.54 \text{ cm}$$

Question 1	Inches	Feet' Inches''	Centimeters (cm)	Magnification
A. Measure width of your desk top				This is how wide the desk is at 1x.
B. Multiply width by 4				How wide it would be at 4x.
C. Multiply width by 10				How wide it would be at 10x
D. Multiply width by 40				How wide it would be at 40x.

Question 2	Inches	Feet' Inches''	Centimeters (cm)	Magnification
A. How tall are you?				This is how tall you are at 1x.
B. Multiply height by 4				How tall you would be at 4x.
C. Multiply height by 10				How tall you would be at 10x
D. Multiply height by 40				How tall you would be at 40x.