

Name _____ Date _____

Study Link
1-4

Powers of Ten

1. Convert and write an equation with an exponent. Use your meter strip when it helps you.

a. 2 meters to centimeters $2\text{m} = 200\text{ cm}$ $2 \times 10^2 = 200$

b. 108 centimeters to meters $108\text{ cm} = \underline{\hspace{2cm}}\text{ m}$ _____

c. 2.49 meters to centimeters _____ $\text{m} = \underline{\hspace{2cm}}\text{ cm}$ _____

d. 50 centimeters to meters _____ $\text{cm} = \underline{\hspace{2cm}}\text{ m}$ _____

e. 6.3 meters to centimeters _____ $\text{m} = \underline{\hspace{2cm}}\text{ cm}$ _____

f. 7 centimeters to meters _____ $\text{cm} = \underline{\hspace{2cm}}\text{ m}$ _____

g. In the space below, list the letters of the problems where smaller units are converted to larger units.

2. Yi Ting's height is 1.49 m. Express this measurement in millimeters. Explain your thinking. Include an equation with an exponent in your explanation.

3. A ladybug's length measures 2 cm. Express this measurement in meters. Explain your thinking. Include an equation with an exponent in your explanation.