

Name: _____ Date: ____/____/____ Period: _____

11.3 Indirect Measurements-Notesheet

Review of Similar Triangles:

⊙ What are the properties of similar triangles?

- _____
- _____

⊙ Triangles have special similarity shortcuts

- _____
- _____
- _____

Word Problem:

BASKETBALL At 7 feet, Margo Dydek is one of the tallest women to play professional basketball. Her coach, Carolyn Peck, is 6 feet tall. If Ms. Peck casts a shadow that is 4 feet long, about how long would Ms. Dydek's shadow be? Round to the nearest tenth.

■ Diagram:

Indirect Measurements with Similar Triangles:

⊙ Indirect measurement is ...

- _____
- _____

■ Calculations:

⊙ **HISTORY**

Thales is known as the first Greek scientist, engineer, and mathematician. Legend says that he was the first to determine the height of the pyramids in Egypt by examining the shadows made by the Sun.

