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Module 18	Solving Radical Equations	hobium
Lesson 3	Solving Problems Using Radical	guiueu
	Equations	practice

## Set 1

- **1.** The time in seconds, *T*, it takes for an object to fall a given distance in feet, *d*, can be found using the formula  $T = \sqrt{\frac{d}{16}}$ . An object was dropped from a bridge and hit the water 3.8 seconds later. Find how far the object fell to the nearest foot.
- **2.** The time elapsed during one complete swing of a pendulum can be found using the formula  $T = 6.28\sqrt{\frac{1}{32}}$ . In this formula, *T* is the time in seconds, and *I* is the length in feet of the pendulum. What is length of a pendulum that makes one swing in 2.5 seconds?
- **3.** A fisherman traveled due north  $4\frac{1}{2}$  meters from his fishing spot to the opposite bank of a stream. He then headed due east and walked upstream, parallel to the stream, until the distance from his original spot was  $7\frac{1}{2}$  meters. How far did the fisherman walk upstream? Use the formula  $c = \sqrt{a^2 + b^2}$ , where *c* is the length of the hypotenuse and *a* and *b* are the lengths of the legs.



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Module 18 Lesson 3

**Guided Practice** 

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