

## **Related Practice**

### **Math in Action Video: Architecture**

#### **Architect – Eric Beck**

**Directions:** Complete the following activities to enhance your viewing of the Math in Action video and reinforce your understanding of math concepts.

#### **Math in Action: Scale Drawings**

Using a scale of  $\frac{1}{4}$  inch = 1 foot, determine the length on a paper drawing of a room that is 20 feet long.

#### **Math in Action: Volume of a Pool**

Find the volume of the pool shown in the video. The pool has a radius of 10.5 feet and is 4 feet deep

$$V = \pi r^2 h$$

If the pool has 7.48 gallons of water per cubic foot, how many gallons of water will be needed to fill this pool?

#### **Math in Action: Designing a Building**

Use graph paper and a scale of  $\frac{1}{4}$  inch = 1 foot to design your dream house. Determine the actual area of each room.