

### **MATC9 Ch01.2 KeyConcepts 3 Reasonableness of Answers Worked Example**

**Example:** Sunita stayed at a Caribbean hotel which charged \$115 per night, plus a 17% government tax. She was charged \$41.14 per night in tax. Is this reasonable?

**Solution:** Round the room charge and tax rate to the nearest 10, and then multiply.

$$\begin{aligned}\text{Tax} &\doteq 120 \times 0.2 \\ &= \$24\end{aligned}$$

Therefore, \$41.14 is not reasonable.

#### **Practice:**

**1.** Gerald rides his bicycle to and from school, which is 4.8 km from his house. He claims to ride over 4000 km per year. One year consists of 180 school days. Is this reasonable?

**2.** Rosetta left a \$6.00 tip for a meal costing \$39.65. Is this a reasonable 15% tip?

Answers: 1. No. 2. Yes.