Possible Solutions

1. Students may use proportional reasoning to solve

$$\frac{1\text{ km}}{1{,}000\text{ m}} = \frac{3.4\text{ km}}{x}$$

   a. Balance the equations to make them equivalent by multiplying both the numerator and denominator by 3.4
   b. 1 x 3.4 = 3.4; 1,000 x 3.4 = 3,400
   c. Therefore x = 3,400 meters

2. Students may choose to use the unit rate to solve.

$$3.4\text{ km} \times \frac{1{,}000\text{m}}{1\text{ km}} = x$$

   a. Dividing by 1 km will cancel out the km units
   b. Multiply across to solve for x
   c. 3.4~~km~~ x 1,000m = 3,400 m
   d. Therefore, x = 3,400 m

3. Lastly, students may just apply their knowledge of unit rates and proportions and simply solve using this knowledge.

$$3.4 \times 1{,}000 = 3{,}400\text{ meters}$$