

## Exit Ticket Sample Solutions

Lee sells electronics. He earns a 5% commission on each sale he makes.

- a. Write an equation that shows the proportional relationship between the dollar amount of electronics Lee sells,  $d$ , and the amount of money he makes in commission,  $c$ .

$$c = \frac{1}{20}d \text{ or } c = 0.05d$$

- b. Express the constant of proportionality as a decimal.

0.05

- c. Explain what the constant of proportionality means in the context of this situation.

*The constant of proportionality of 0.05 means that Lee would earn five cents for every dollar of electronics that he sells.*

- d. If Lee wants to make \$100 in commission, what is the dollar amount of electronics he must sell?

$$\begin{aligned}c &= 0.05 d \\100 &= 0.05 d \\ \frac{1}{0.05}(100) &= \frac{1}{0.05}(0.05) d \\2,000 &= d\end{aligned}$$

*Lee must sell \$2,000 worth of electronics.*