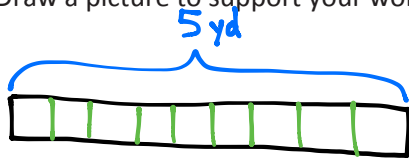


Name _____

Date _____

A grasshopper covered a distance of 5 yards in 9 equal hops. How many yards did the grasshopper travel on each hop?

- a. Draw a picture to support your work.



Each hop is $\frac{5}{9}$ yard.

$$\begin{aligned} 9 \text{ units} &= 5 \text{ yd} \\ 1 \text{ unit} &= 5 \div 9 \\ 1 \text{ unit} &= \frac{5}{9} \text{ yd.} \end{aligned}$$

$$\begin{array}{r} 0 \frac{5}{9} \\ 9 \overline{)5} \\ \underline{-0} \\ 5 \end{array}$$

- b. How many yards did the grasshopper travel after hopping twice?

$$\text{Two hops} = \frac{5}{9} + \frac{5}{9} = \frac{10}{9} = 1 \frac{1}{9}$$

Two hops is $1 \frac{1}{9}$ yards.