

Drag Racer Dragonfly

Instructions

A frog can hop at a maximum speed of about 60 feet every 4 seconds. How far can the frog go in 30 seconds? Show your work on this problem using two or three of the methods that were discussed in the dragonfly problem.



Method 1: Rate Equations

distance = rate x time

$$d = 60/4(30)$$

$$d = 15(30)$$

$$d = 450$$

450 feet

Method 2: Proportional Relationship

$$\frac{60 \text{ ft.}}{4 \text{ sec.}} = \frac{x}{30 \text{ sec}}$$

$$4x = 1800$$

$$x = \frac{1800}{4}$$

450 ft

Work Area