

# Drag Racer Dragonfly

## Instructions

A printer can print 3 high-quality photographs in 2 minutes. How long will it take that printer to print 14 photos? Show 2 or 3 methods that you can use to understand and solve this problem.



### Method 1: Rate Equation

# of photos = rate x time

$$14 = \frac{3}{2}t$$

$$14 = 1.5t$$

$$\frac{14}{1.5} = \frac{1.5t}{1.5}$$

$$9.33... = t$$

9 minutes, 20 seconds

### Method 2: Proportional Relationship

Photo printing

3 photos printing in 2 minutes is proportional to 14 photos printing in x minutes

$$\frac{3}{2} = \frac{14}{x}$$

$$3x = 28$$

$$x = \frac{28}{3}$$

$$x = 9\frac{1}{3} \text{ minutes}$$

Work Area