



MathFLIX CHALLENGE

September 27, 2007
Distance Formulas $d = rt$



$$(\text{rate})(\text{time}) = \text{distance}$$

$$\text{rate} = \frac{\text{distance}}{\text{time}}$$

$$\text{time} = \frac{\text{distance}}{\text{rate}}$$

Use the formulas above to answer the questions in the tables below.

Person	Travel Mode	Rate (Speed)	Time	Question	Formula	Distance
Marla	walked	$\frac{6 \text{ miles}}{1 \text{ hour}}$	10 hours	How far did she travel?		
Amid	ran	$\frac{8 \text{ miles}}{1 \text{ hour}}$	8 hours	How far did he travel?		
Carlita	swam	$\frac{2 \text{ miles}}{1 \text{ hour}}$	2 hours	How far did she travel?		

Person	Travel Mode	Distance	Rate (Speed)	Question	Formula	Time
Marla	walked	24 miles	$\frac{6 \text{ miles}}{1 \text{ hour}}$	How long did she travel?		
Amid	ran	24 miles	$\frac{8 \text{ miles}}{1 \text{ hour}}$	How long did he travel?		
Carlita	swam	24 miles	$\frac{2 \text{ miles}}{1 \text{ hour}}$	How long did she travel?		

Person	Travel Mode	Distance	Time	Question	Formula	Rate
Marla	walked	20 miles	10 hours	How fast did she travel?		
Amid	ran	40 miles	8 hours	How fast did he travel?		
Carlita	swam	6 miles	2 hours	How fast did she travel?		

- Mary kayaked 12 miles in 2 hours. What was her speed?
- Diane rollerbladed for 2 hours at 5 miles per hour. What was her distance?
- Krista drove 80 miles at 40 miles per hour. How long was her trip?