

How fast does it go?: Follow the directions and use the key!



1) To figure out the speed of the motor boat. First count the knots.



How many knots are there? ____ What is the distance that the motor boat traveled? ____

2) Look at the watches. How many seconds passed?



Start Time



End Time

How much time was used to measure the knots? _____

3) Now figure the speed by inserting your numbers into the formula:

Rate or Speed = Distance ÷ Time _____ = _____ ÷ _____

1) Now figure the "miles per hour":

$$\frac{\text{feet}}{\text{seconds}} \times \frac{60 \text{ seconds}}{1 \text{ minute}} \times \frac{60 \text{ minutes}}{1 \text{ hour}} \times \frac{1 \text{ mile}}{5280 \text{ feet}} = \text{mph}$$

2) Now figure the "knots":

$$\frac{\text{miles}}{\text{hour}} \times \frac{1.151 \text{ miles}}{1 \text{ hour}} = \text{knots}$$