Speed Machines

FORMULA : SPEED = Distance ÷ Time
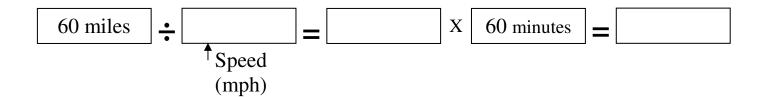
Round answers to the nearest tenth (one decimal place)!

1. NASCAR fans love race day when they get a chance to cheer on their favorite team! If a driver was able to travel 600 miles in 3 hours, what was his average speed?

2. The fastest car on Earth, a British-made *Thrust SSC*, would win every NASCAR race in America. If it takes 0.5 hours (30 minutes) to travel 380 miles, what is its speed?

3. The fastest train on Earth, the *TGV* from France, can travel at faster speeds than trains in the United States. During a speed test, the train traveled 800 miles in 2.5 hours. What is its speed?

4. *Spirit of Australia*, a hydroplane boat, made speed records by traveling 239 miles in 0.75 hours (45 minutes). What is its record-breaking speed?

5. The fastest plane ever made, the *Lockheed SR71*, was able to travel 2200 miles per hour. Based on this speed, how far could it travel in:

    a. 2 hours?   b. 3 hours?   c. 5 hours?

Challenge:
Which machine on this page is the fastest? _____

6. Fill in the boxes and use a calculator to determine how long it would take each machine to get to travel 60 miles. Use the speeds you calculated in miles per hour on the front of this worksheet. Round answers to the nearest tenth (one decimal place)!

| 60 miles | ÷ | | = | | X | 60 minutes | = | |

↑Speed
(mph)

A. Jeff Gordon's Car = _____ minutes

B. *Thrust SSC* Car = _____ minutes

C. *TGV* Train = _____ minutes

D. *Spirit of Australia* Boat = _____ minutes

E. *Lockheed SR71* Airplane = _____ minutes

Speed Machine Answers:

1. 600 ÷ 3 = 200 mph

2. 380 ÷ .5 = 760 mph

3. 800 ÷ 2.5 = 320 mph

4. 239 ÷ .75 = 318.67 mph

5. a. 2200 x 2 = 4400 miles, b. 2200 x 3 = 6600 miles, c. 2200 x 5 = 11,000 miles

Challenge: Lockheed SR71

6. A. 18 minutes, B. 4.7 minutes, C. 11.3 minutes, D. 11.3 minutes, E. 1.6 minutes