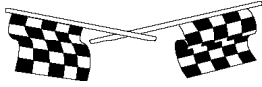


Speed Machines

Name _____



FORMULA : $\text{SPEED} = \text{Distance} \div \text{Time}$
Round answers to the nearest tenth (one decimal place)!

1. Nascar driver, Jeff Gordon, has a car that is one of the fastest on the circuit. If it travels 600 miles in 4 hours, what is his cruising speed?
2. The fastest car on Earth, a German-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 *Lockhead 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: Out of all the machines on this worksheet, which one 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.

← Round answers in shaded boxes!

A. Jeff Gordon's Car = _____ mph ← Copy speed from front page!

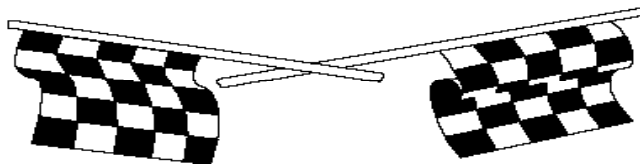
$$\begin{array}{c} \boxed{60} \\ \text{miles} \end{array} \div \begin{array}{c} \boxed{} \\ \text{Speed} \end{array} = \boxed{} \times \begin{array}{c} \boxed{60} \\ \text{minutes} \end{array} = \boxed{} \text{minutes}$$

B. *Thrust SSC* Car = _____ mph

C. *TGV* (France) Train = _____ mph

D. *Spirit of Australia* Boat = _____ mph

E. *Lockhead SR71* Airplane = _____ mph



Speed Machine Answers:

1. $600 \div 4 = 150$ mph

2. $380 \div .5 = 760$ mph

3. $800 \div 2.5 = 320$ mph

4. $239 \div .75 = 318.67$ mph

5. a. $2200 \times 2 = 4400$ miles, b. $2200 \times 3 = 6600$ miles, c. $2200 \times 5 = 11,000$ miles

Challenge: Lockheed SR71

6. A. 24.0 minutes, B. 4.7 minutes, C. 11.3 minutes, D. 11.3 minutes, E. 1.6 minutes