

Travel Time The road sign shows your distance to several nearby cities in miles. In Exercises 7 and 8, use the road sign. (See Example 3.)

7. You are driving at 45 miles per hour. Which of the following expressions should you use to determine how long it will take to get to Ventura? How long will it take?

a. $54 \text{ mi} \times \frac{45 \text{ mi}}{1 \text{ hr}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \square$

b. $54 \text{ mi} \times \frac{1 \text{ hr}}{45 \text{ mi}} \times \frac{60 \text{ min}}{1 \text{ hr}} = \square$

c. $54 \text{ mi} \times \frac{45 \text{ mi}}{1 \text{ hr}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \square$

d. $54 \text{ mi} \times \frac{1 \text{ hr}}{45 \text{ mi}} \times \frac{1 \text{ hr}}{60 \text{ min}} = \square$



8. You are driving at 65 miles per hour. How long will it take to get to Los Angeles?



A human heart weighs about 10 ounces. On average, it beats about 70 times per minute and pumps about 2.5 fluid ounces of blood with each beat.

Human Heart In Exercises 9–12, use the information. (See Examples 3 and 4.)

9. How much does a heart weigh in pounds?
10. A human brain weighs about 3 pounds. How many ounces heavier is a brain than a heart?
11. How many quarts of blood does a heart pump in 1 minute?
12. How many gallons of blood does a heart pump in 1 day?

Heart Rate A patient’s heart rate can be determined from an electrocardiogram (EKG). The time between two peaks on the EKG represents one heartbeat. In Exercises 13 and 14, use the EKG. (See Example 4.)

13. Ringo Starr sang a song that had the words “In a heartbeat, I’ll be by your side.” What is the length of one heartbeat?
14. What is the heart rate of the person whose EKG is shown? Is the heart rate shown normal?

