Write the letter for the correct answer in the blank at the right of each question.
1. Express 6 cups to 5 quarts as a fraction in simplest form.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
2. Express the ratio 6 feet to 3 yards as a fraction in simplest form.
$\mathbf{F} \stackrel{2}{=} \mathbf{G} \stackrel{3}{=} \mathbf{H} \stackrel{2}{=} \mathbf{J} \stackrel{1}{=} \mathbf{G} \stackrel{2}{=} \mathbf{I} \stackrel{2}{=} I$
3. Express 325 miles every 5 hours as a unit rate.
A 1625 mi/h B 65 mi/h C 55 mi/h D 6.5 mi/h 325 mi/s = 65
4. Which of the following has the same unit rate as 8 books in 12 weeks?
2 books in 1 week 5 b ÷ 7 1 3 books in 15 weeks 12 w ÷ 12 1 w
5. Ms. Epps can run 15 laps in 22 minutes. How many laps can she run in 10 minutes?
A 6 laps B 7 laps C 7 laps D 6.8 laps 22 min 10 min
6. Which of the following shows the correct metric approximation for 7 feet?
F 2.1 meters G 4.3 meters H 21.3 meters J 23 meters X = 6.8
(Hint: 1 meter = 3.28 feet) $\frac{1}{3.28}$ $\frac{3.28}{3.28}$ $\times = 2.13$
7. An athlete runs 5 miles in $1\frac{1}{4}$ hours. If the distance covered is proportional to
the time spent running, which of the following is not an equivalent rate? This is the time spent running, which of the following is not an equivalent rate? This is $\frac{3m}{175}$ is $\frac{4m}{175}$.
2 mi 2 8 mi B 2 miles in $\frac{1}{4}$ hour \ 4 miles in 1 hour
0.75 hr hr
8. A map has a scale of 1 inch = 75 miles. How many inches on the map would represent 300 miles?
F 2 inches G 3 inches H 4 inches J 5 inches 75 inches 300 m:
9. What value of x makes $3 = \frac{12}{4}$ a proportion?
A 14.4 B 10 $4\chi = 3.6$ C 1.6 D 0.9
10. A chili recipe calls for 6 pounds of ground beef for 25 servings. How many pounds are needed for 30 servings?
F 5 G 7.2 H 8 J 15 25 sm. 30 sc.
11. At the grocery store, 3 cans of tuna fish are on sale for \$1.08. Which equation could be used to find the total cost c if a customer wants to buy 7 cans of tuna?
A $c = 7 \cdot 1.08$ B $c = 3 \cdot 0.36$ C $c = 7 \cdot 0.36$ D $c = 7 \cdot 3.24$
\$1.68 = \$0.36
12. Audrey used a scale of 1 inch = 5 feet to construct a scale model of the school gymnasium. A basketball hoop in the model has a height of 2 inches. What is the actual height of the basketball hoop?
F 2.5 feet G 7 feet H 10 feet J 15 feet
13. Suppose a model of a commercial airplane is 11.5 inches long. The actual length of the airplane is 230 feet long. What is the scale of the model?
A 1 ft = 20 in. B 20 in. = 20 ft C 1 in. = 20 ft D 20 in. = 230 ft