Name: _____ Class: _____ Date: _____ ID: A

Exercises for section 7.7 Proportions

Numeric Response

1. Solve the following proportion.

   $\frac{x}{2} = \frac{5}{10}$

   $x =$ _____

   .

2. Solve the following proportion.

   $\frac{3}{7} = \frac{9}{x}$

   $x =$ _____

   .

Multiple Choice

Identify the choice that best completes the statement or answers the question.

____ 1. A baseball player gets 7 hits in the first 35 games of the season. If he continues hitting at the same rate, how many hits will he get in the first 70 games?

   a. 19 hits
   b. 28 hits
   c. 13 hits
   d. 26 hits
   e. 14 hits

____ 2. A basketball player makes 4 of 6 free throws in the first game of the season. If she shoots with the same accuracy in the second game, how many of the 15 free throws she attempts will she make?

   a. 24
   b. 28
   c. 10
   d. 6
   e. 23

____ 3. A solution contains 15 milliliters of alcohol and 20 milliliters of water. If another solution is to have the same concentration of alcohol in water but is to contain 28 milliliters of water, how much alcohol must it contain?

a. 16 milliliters
b. 26 milliliters
c. 23 milliliters
d. 17 milliliters
e. 21 milliliters

.

____ 4. If 100 grams of ice cream contains 13 grams of fat, how much fat is in 550 grams of ice cream?

a. 55.5 grams
b. 2 grams
c. 60 grams
d. 71.5 grams
e. 423 grams

.

____ 5. A map is drawn so that every 3.5 inches on the map corresponds to an actual distance of 100 miles. If the actual distance between the two cities is 540 miles, how far apart are they on the map?

a. 12.3 inches
b. 15.9 inches
c. 5.4 inches
d. 18.9 inches
e. 154 inches

.

____ 6. A man drives his car 276 miles in 6 hours. At this rate, how far will he travel in 9 hours?

a. 495 miles
b. 184 miles
c. 207 miles
d. 414 miles
e. 370 miles

.

Exercises for section 7.7 Proportions
Answer Section

NUMERIC RESPONSE

1. ANS: 1

   PTS: 1
2. ANS: 21

   PTS: 1

MULTIPLE CHOICE

1. ANS: E PTS: 1
2. ANS: C PTS: 1
3. ANS: E PTS: 1
4. ANS: D PTS: 1
5. ANS: D PTS: 1
6. ANS: D PTS: 1