Name _____ Date _____ Class _____

The annual dog show has 22 collies, 28 boxers, and
18 poodles. Write each ratio in all three forms.

1. collies to poodles

2. boxers to collies

_____

_____

3. poodles to boxers

4. poodles to collies

_____

_____

The Franklin School District has 15 art teachers, 27 math
teachers, and 18 Spanish teachers. Write the given ratio in
all three forms.

5. art teachers to math teachers

6. math teachers to Spanish teachers

_____

_____

7. Spanish teachers to all teachers

8. art and math teachers to Spanish
teachers

_____

_____

9. Thirty-two students are asked
whether the school day should be
longer. Twenty-four vote "no" and 8
vote "yes." Write the ratio of "no"
votes to "yes" votes in simplest form.

10. A train car has 64 seats. There are
48 passengers on the train. Write the
ratio of seats to passengers in sim-
plest form.

_____

11. Tell whose CD collection has the
greater ratio of rock CDs to total CDs.

_____

	Glen	Nina
Classical CDs	4	8
Rock CDs	9	12
Other CDs	5	7

Name _____ Date _____ Class _____

LESSON Practice B
5-2 Rates

1. A part-time job pays $237.50 for 25 hours of work. $ _____ /hour
How much money does the job pay per hour?

2. A class trip consists of 84 students and 6   _____
teachers. How many students per teacher
are there?

3. A factory builds 960 cars in 5 days. What is the   _____
average number of cars the factory produces
per day?

4. The Wireless Cafe charges $5.40 for 45 minutes   _____
of Internet access. How much money does The
Wireless Cafe charge per minute?

5. A bowler scores 3,152 points in 16 games.   _____
What is his average score in points per game?

6. Melissa drives 238 miles in 5 hours. What is her   _____
average rate of speed?

7. An ocean liner travels 1,233 miles in 36 hours.   _____
What is the ocean liner's average rate of speed?

8. A plane is scheduled to complete a 1,792-mile   _____
flightin 3.5 hours. In order to complete the trip
on time, what should be the plane's average
rate of speed?

9. The Nuthouse sells macadamia nuts in three   _____
sizes. The 12 oz jar sells for $8.65, the 16 oz
jar sells for $10.99, and the 24 oz gift tin costs
$16.99. Which size is the best buy?

10. Nina paid $37.57 for 13 gallons of gas. Fred paid   _____
$55.67 for 19 gallons of gas. Eleanor paid $48.62
for 17 gallons of gas. Who got the best buy?

Holt Mathematics

Name _____ Date _____ Class _____

Practice B
Identifying and Writing Proportions

Determine whether the ratios are proportional.

1. $\dfrac{3}{4}, \dfrac{24}{32}$

2. $\dfrac{5}{6}, \dfrac{15}{18}$

3. $\dfrac{10}{12}, \dfrac{20}{32}$

_____

_____

_____

4. $\dfrac{7}{10}, \dfrac{22}{30}$

5. $\dfrac{9}{6}, \dfrac{21}{14}$

6. $\dfrac{7}{9}, \dfrac{24}{27}$

_____

_____

_____

7. $\dfrac{4}{10}, \dfrac{6}{15}$

8. $\dfrac{7}{12}, \dfrac{13}{20}$

9. $\dfrac{4}{9}, \dfrac{6}{12}$

_____

_____

_____

10. $\dfrac{7}{8}, \dfrac{14}{16}$

11. $\dfrac{9}{10}, \dfrac{45}{50}$

12. $\dfrac{3}{7}, \dfrac{10}{21}$

_____

_____

_____

Find a ratio equivalent to each ratio. Then use the ratios to write a proportion.

13. $\dfrac{7}{9}$

14. $\dfrac{11}{12}$

15. $\dfrac{14}{15}$

_____

_____

_____

16. $\dfrac{35}{55}$

17. $\dfrac{14}{10}$

18. $\dfrac{25}{18}$

_____

_____

_____

Holt Mathematics

Puzzles, Twisters & Teasers
LESSON 5-4 *Draw the Line!*

Draw lines to connect the proportional ratios. Then start with
number 1 and find the letter next to the answer. Use the letters
with each correct answer to solve the riddle.

1. $\frac{8}{14}$ $\qquad$ $\frac{20}{12}$ T

2. $\frac{2}{4}$ $\qquad$ $\frac{3}{9}$ E

3. $\frac{18}{24}$ $\qquad$ $\frac{5}{6}$ R

4. $\frac{10}{6}$ $\qquad$ $\frac{2}{7}$ S

5. $\frac{6}{21}$ $\qquad$ $\frac{2}{10}$ D

6. $\frac{6}{20}$ $\qquad$ $\frac{3}{10}$ Y

7. $\frac{1}{3}$ $\qquad$ $\frac{25}{15}$ A

8. $\frac{1}{5}$ $\qquad$ $\frac{3}{4}$ I

9. $\frac{5}{3}$ $\qquad$ $\frac{12}{24}$ H

10. $\frac{10}{12}$ $\qquad$ $\frac{4}{7}$ U

Why do soccer players do well in math?

$\overline{\ \ 4\ \ }$ $\overline{\ \ 2\ \ }$ $\overline{\ \ 7\ \ }$ $\overline{\ \ 6\ \ }$ $\quad$ $\overline{\ \ 1\ \ }$ $\overline{\ \ 5\ \ }$ $\overline{\ \ 7\ \ }$

$\overline{\ \ 4\ \ }$ $\overline{\ \ 2\ \ }$ $\overline{\ \ 7\ \ }$ $\overline{\ \ 3\ \ }$ $\overline{\ 10\ }$ $\quad$ $\overline{\ \ 2\ \ }$ $\overline{\ \ 7\ \ }$ $\overline{\ \ 9\ \ }$ $\overline{\ \ 8\ \ }$ $\overline{\ \ 5\ \ }$.

Holt Mathematics