5.3 Practice A

Write a proportion to find how many points a student needs to earn on the test to get the given score.

1. test worth 70 points; test score of 90%   **2.** test worth 30 points; test score of 72%

Write a proportion to find how many free throws a player needs to get the given score.

3. 15 free-throw attempts; free-throw score of 60%

4. 24 free-throw attempts; free-throw score of 75%

Use the table to write a proportion.

5.

	August	September
Hurricanes	2	1
Storms	6	n

6.

	Day 1	Day 2
Wins	w	8
Races	21	12

7. The county requires 2 teachers for every 45 students. Write a proportion that gives the number t of teachers needed for 315 students.

Solve the proportion.

8. $\dfrac{2}{3} = \dfrac{a}{15}$ **9.** $\dfrac{4}{7} = \dfrac{44}{m}$ **10.** $\dfrac{d}{6} = \dfrac{72}{48}$

11. A paint color requires the ratio of green paint to yellow paint to be 4 : 9.

   a. A container of this paint has 36 pints of yellow paint. Write a proportion that gives the number g of pints of green paint in the container.

   b. How many pints of green paint are in the container?

   c. How many *gallons* of paint are in the container altogether?

12. An orchestra has 10 cellists.

   a. There are 3 violin players for every cellist in the orchestra. How many violin players are there?

   b. There are 6 viola players for every 5 cellists in the orchestra. How many viola players are there?

   c. What is the ratio of viola players to violin players? Give your answer in simplest form.

13. Give two possible pairs of values for p and q: $\dfrac{2}{5} = \dfrac{p}{q}$.