**5.3: Writing Proportions**

How do you determine if two ratios are proportional? Explain giving an example   
of ratios that are proportional.

Write two equivalent ratios for the ratio given.

1.  2. 

3.  4. 

5.  6. 

7.  8. 

You scored 15 points in 3 minutes. Your cousin scored 25 points in 5 minutes.

Are the scores proportional? Explain.

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

1. test worth 100 points; test score of 85%

2. test worth 50 points; test score of 74%

3. test worth 25 points; test score of 80%

4. test worth 110 points; test score of 90%

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

1. 15 free-throw attempts; free-throw score of 60%

2. 24 free-throw attempts; free-throw score of 75%

Use the table to write a proportion.

|  |  |  |
| --- | --- | --- |
|  | **Day 1** | **Day 2** |
| **Wins** | *w* | 8 |
| **Races** | 21 | 12 |

|  |  |  |
| --- | --- | --- |
|  | **August** | **September** |
| **Hurricanes** | 2 | 1 |
| **Storms** | 6 | *n* |

3. 4.

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