

4-2 Word Problem Practice***Proportional and Nonproportional Relationships***

For Exercises 1–8, use a table of values when appropriate to explain your reasoning.

<p>1. SPORTS A touchdown is worth 6 points. Additionally you score an extra point if you can kick a field goal. Is the total number of points scored equal to the number of touchdowns?</p>	<p>2. DRIVING Gasoline costs \$2.79 per gallon. Is the number of gallons proportional to the total cost?</p>
<p>3. JOBS Michael earns \$3.90 per hour as a server at a restaurant. In addition, he earns an average of 18% tips on his food sales. Is the amount of money that he earns proportional to the number of hours that he works?</p>	<p>4. RECREATION A outdoor swimming pool costs \$8 per day to visit during the summer. There is also a \$25 yearly registration fee. Is the total cost proportional to the total number of days visited?</p>
<p>5. SCHOOL At a certain middle school, there are 26 students per teacher in every homeroom. Is the total number of students proportional to the number of teachers?</p>	<p>6. TEAMS A baseball club has 18 players for every team, with the exception of four teams that have 19 players each. Is the number of players proportional to the number of teams?</p>
<p>7. MONEY At the beginning of the summer, Roger had \$180 in the bank. Each week he deposits another \$64 that he earns mowing lawns. Is his account balance proportional to the number of weeks since he started mowing lawns?</p>	<p>8. SHELVES A bookshelf holds 43 books on each shelf. Is the total number of books proportional to the number of shelves in the bookshelf?</p>