We are in the midst of another exciting NFL season. Aside from the actual football games being played, a relatively new game based on the NFL is becoming increasingly popular. Fantasy football is played by an estimated 25 to 30 million people each year. To play, contestants join or form a league and have a draft to form their own teams comprised of NFL players. Each person in the league typically drafts an NFL quarterback, running backs, wide receivers and so on. The more offensive production out of your players, the more points you get. League scoring systems vary, but for example a quarterback could earn you six points for each touchdown pass, 0.05 points for every passing yard and -2 points for each interception. Websites such as ESPN.com and Yahoo Sports host millions of fantasy football players. These websites use formulas to compute the number of points each player and team totals in an NFL weekend.

Let’s look at an example with the quarterback scoring:

Touchdown Pass = 6 points  
Passing Yard = 0.05 points  
Interception = -2 points

1. In week one of the 2011–2012 season Tom Brady threw four touchdowns, 510 passing yards and one interception. Find the number of fantasy points Tom Brady has scored in this week. Show your work or thinking below:

2. In week two, Cam Newton threw one touchdown pass, had 420 passing yards and three interceptions. Find the number of fantasy points Cam Newton has scored in this week. Show your work or thinking below:

3. Look back at your method for the previous two problems. Write a formula that gives the points (p) for any number of touchdowns (t), passing yards (y), and interceptions (n).

4. A quarterback threw for 180 yards, three interceptions and had 15 total points. Use your rule to find the number of touchdown passes this quarterback threw for. Show your work below:
5. A quarterback had a total 35 fantasy points. He had four touchdowns, one interception and 35 total points. Use your rule to find the number of passing yards this quarterback threw for. Show your work below:

6. A quarterback had 18 total fantasy points. He had one touchdown pass and 320 passing yards. Use your rule to determine how many interceptions the quarterback threw for. Show your work below:

**Different Scoring for Different Positions:**

Some leagues use the following scoring system for a wide receiver and tight end:

- **Receptions = 0.2 points**
- **Receiving Yards = 0.1 point**
- **Touchdown = 6 points**
- **Fumble = -2 points**

7. Write a rule that calculates the number of fantasy points for a wide receiver. Explain what each term (part) in your rule represents. Show your work below:

9. Use your rule to find the number of fantasy points earned by Marques Colston who had seven receptions, 100 yards, two touchdowns and no fumbles in week seven. Show your work below:

10. The wide receiver on my fantasy team scored 24 fantasy points on Sunday. Find various combinations of receptions, receiving yards, touch downs and fumbles that would total 24 fantasy points. Clearly show your work and be sure to come up with more than one possibility.
Some leagues use the following scoring system for a running back:

- **Receptions = 0.2 points**
- **Receiving Yards = 0.1 point**
- **Rushing Yard = 0.1 point**
- **Touchdown = 6 points**
- **Fumble = -2 points**

11. In week seven of the NFL season, which running back scored more fantasy football points?
   - Arian Foster, had 120 yards receiving, 5 receptions and 2 touchdowns and 115 rushing yards.
   - Demarco Murray, had 253 rushing yards, zero fumbles, zero receiving yards, zero passing yards and one touchdown.

12. Track football stats this weekend. Pick a quarterback, two running backs, 2 wide receivers and tight end. Put your players’ names in the table below before any of this weekend’s games. When the football weekend is over (late Monday night) find your player stats at www.espn.com. Use your actual player points and the scoring rules on this activity sheet to determine the number of fantasy football points your team earned over the weekend. On next Tuesday the class can see whose team scored the most points. Good luck!

   Your Team Name____________________________________

<table>
<thead>
<tr>
<th>Player Name</th>
<th>Position</th>
<th>Passing Yards</th>
<th>Rushing Yards</th>
<th>Receiving Yards</th>
<th>Receptions</th>
<th>Touchdowns</th>
<th>Total interceptions or fumbles</th>
<th>Fantasy Football Points</th>
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   Team Total: *******

13. Write an algebra expression that gives the total points scored by any player for any number of p passing yards, r rushing yards, v receiving yards, c receptions, t touchdowns and f fumbles or interceptions.