Proportion Game

Play this game in pairs.

What you need:
• Two 1–6 number cubes

How to play:
• Decide who goes first. In turn, each player rolls both number cubes and uses the numbers rolled to write a ratio. For example, if a player rolls a 4 and a 6, the player can write either $4 : 6$ or $6 : 4$.

• Each player then uses his or her ratio and writes as many equal ratios as possible to form a proportion. The equal ratios must use numbers less than 100. For example, $4 : 6$ is proportionate to $2 : 3$, $8 : 12$, $36 : 54$, and so on.

• A player who rolls doubles loses a turn.

• The object of the game is to form as many correct proportions as possible.

• Play until you have rolled 10 times. Record your ratios and proportions on the lines provided below. If you roll doubles, write “Doubles.” Use a separate sheet of paper if necessary.

• The winner is the player with more correct proportions.

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10.
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Ratios and proportions will vary. Check students’ work.

1. __________________________________________

2. __________________________________________

4. __________________________________________

5. __________________________________________

6. __________________________________________

7. __________________________________________

8. __________________________________________

9. __________________________________________

10. __________________________________________