

Check for Understanding #2a
 Ratios and Percents 7RP3
 NO CALCULATOR_

Name: _____ Date: _____ Per: _____

Before you begin read the rubric.

	Mastery (4)	Proficient (3)	Nearly Proficient (2)	Needs Improvement (1)
Analyze proportional relationships and use them to solve real-world and mathematical problems	Student can accurately and consistently use proportional relationships to solve multistep ratio and percent problems with no errors .	Student can accurately use proportional relationships to solve multistep ratio and percent problems with minimal errors .	Student is inconsistent in using proportional relationships to solve multistep ratio and percent problems. Makes frequent errors .	Student shows little understanding or no work is shown.

If you have read the rubric, please put a circle in the box next to your name.

1. Convert from fraction to decimal to percent.

Fraction Simplest form	Decimal	Percent
$\frac{1}{4}$		
	0.8	
		55%

2. In a survey, Eric, the team manager, asked all 120 soccer players in the league which drink they preferred during and after the game.

Ricardo, the soccer league director, made the following statements based on Eric's survey. For each statement, tell if it is accurate and explain how you made each decision.

Drink	During Game	After Game
Sports Beverage	70	10
Juice	10	80
Water	40	30

- a. **During** the game, players prefer juice to water by a ratio of 4 to 1.
- b. 25% of the players prefer water **after** the game.
- c. More than half of the players prefer a sports drink **during** the game.

3. The average price of gasoline was \$1.29 in 1997 and \$3.15 in 2007. Find the percent of increase. Round your answer to the nearest tenth.