CC Math 6, Ratios & Rates   Name: _____

Tape Diagrams   Date: _____ Core: _____

Instructions: Create and label a tape diagram to model the relationships between the different amounts and percentages given in each problem.

1.)   A sixth grade class collecting traffic data noticed that there were 3 times as many passenger cars as trucks that drove by their school on Main Street between 1:00PM and 2:00PM. The total number of vehicles that passed by the school was 156. How many cars and how many trucks were counted?

Passenger Cars   ☐☐☐

Trucks   ☐

2.)   Wake County high schools have a ratio of 2 soccer players to every 3 football players. If there are 537 more football players in Wake County, how many soccer players and how many football players are there in Wake County high schools?

3.)   In 2013 there were $3\frac{1}{2}$ as many 6th graders in the southern half of Wake County than there were in the north. If the southern half of Wake County had 4,600 more 6th graders, how many 6th graders were in the north and how many in the south?

4.)   There were 38,000 middle school students in Wake County last year, which was 20% less than this year's enrollment. Therefore, how many middle school students are enrolled this year in Wake County?