

Quiz

Name: \_\_\_\_\_

Mrs. Rodgers is in charge of buying the soda for the soda machine in the commons. She conducted a survey that asked the students what kind of soda they preferred: Coke or Mountain Dew. Here were her results.

	Grade 6	Grade 7	Grade 8
Coke	40	35	45
Mountain Dew	35	50	40

Tell whether the statement is accurate based on the information in the table. Explain your answer.

1. 5 more 8<sup>th</sup> graders prefer Coke to Mountain Dew.
2. The ratio of 8<sup>th</sup> graders who prefer Coke to Mountain Dew is 8 to 9.
3. 50% of the students surveyed prefer Coke.
4.  $\frac{8}{9}$  of the 8<sup>th</sup> graders prefer Mountain Dew.
5.  $\frac{10}{17}$  of the 7<sup>th</sup> graders prefer Mountain Dew.
6. What percent of students at each grade level prefer Mountain Dew?  
6<sup>th</sup> Grade:                                      7<sup>th</sup> Grade:                                      8<sup>th</sup> Grade:
7. What percent of the students surveyed are 7<sup>th</sup> graders?
8. Write 2 new statements you could make comparing students based on the survey data.
9. 12-packs of soda usually sell for \$3.49. The cases are on sale for \$2.99.
  - a. What percent saving is this?
  - b. What would the price of a 12 pack need to be for a buyer to receive a 30% discount?