Compare Data Sets

Solve.

1. Ferris bought 12 apples and 10 oranges at the market. He gave 4 apples and 2 oranges to his friend. Did he give away a higher percent of apples or oranges? Use fractions to solve the problem.
   \[
   \frac{4}{12} = \quad \frac{2}{10} =
   \]

2. Kathy has 100 songs on her music player. 40 of them are by solo singers. Beth has 200 songs on her music player, and 60 of them are by solo singers. Who has the higher percent of songs by solo singers? Use percents to solve the problem.
   \[
   \frac{40}{100} = \frac{2}{5} \\
   \frac{60}{200} = \frac{3}{10}
   \]

3. The library where Jason borrows movies has 100 DVDs in its collection. 25 are cartoons. The library also has 80 videos, of which 24 are cartoons. Which has a higher percent of cartoons: the DVD collection or the video collection?

4. Jason has 25 DVDs and 16 videos at home. Of these, 5 DVDs and 4 videos are action films. Does he have a higher percent of action DVDs or action videos?

5. At Central Middle School, there are 656 students. 492 of them take a foreign language. At Eastern Middle School, there are 480 students. 384 take a foreign language. Which school has a higher percent of students taking a foreign language? Write the two percents.

6. Chloe took a pottery class for a year. Altogether, she and her classmates made 144 bowls and 96 vases in the first six months. In the second six months, they made 117 bowls and 63 vases. In which part of the year did they make a higher percent of bowls? Write percents for bowls and vases for each part of the year.