Ratio and Rates Word Problems - Step-by-Step Lesson

Comparison Ratios Word Problems:

Daniel and Paul went hunting. On the first day Daniel caught 3 rabbits and Paul caught 8 deer. On the second day Daniel caught 4 rabbits and Paul caught 7 deer. On which day of hunting did Daniel and Paul catch a higher ratio of rabbits to deer?

Explanation:

Step 1) First see what is being asked.

We are looking for the rate of rabbits to deer. So everything should be in the form rabbits:deer

Step 2) On the first day Daniel and Paul had the ratio of 3 to 8 or $\dfrac{3}{8}$

On the second day Daniel and Paul had the ratio of 4 to 7 or $\dfrac{4}{7}$

By converting them into percentages we can compare the ratios easily.

Now convert the ratios into decimals and then to percentages.

$\dfrac{3}{8} = 0.375 = 37.5\ \%$

$\dfrac{4}{7} = 0.57143 = 57.143\ \%$

Now see which is the higher percentage.

57.143 % is larger than 37.5 %

Step 3) The answer will be, "Second day" because on the second day of hunting they caught a higher ratio of rabbits to deer.