

Percent with Tape Diagrams – Example Problem

*Differentiate as needed for your students.

The 7th grade basketball team won 20 of 25 games. The 8th grade basketball team won 15 of 20 games. Which team had a greater winning percentage? Justify your answer using a tape diagram.

Step 1: The diagrams below show 100% for each basketball team. Start by dividing each bar into 5 pieces. Label the percent so that each section will represent 20%.

7th grade:

100%



Games



8th grade:

100%



Games



Step 2: Find the number that belongs in each section for the games bars. 7th grade 25 divided by 5,
8th grade 20 divided by 5.

Step 3: Determine how many sections to shade on each bar. Shade the sections.

Step 4: Compare bars to determine answer.

_____ grade had a greater winning percentage.

Repeat the process as necessary. Allow students to work in small groups or pairs to solve additional problems. The goal is to complete problems independently.

Name _____

Percent – Tape Diagrams, Fractions, Decimals, Formulas

1. 50 is 20% of what number?

2. What number is 70% of 250?

3. What percent of 20 is 4?

4. 40% of what number is 82?

5. What percent of 90 is 36?