

1.1b Homework: Tape Diagrams

- At the skate park, Anthony notices that for every 3 kids that are on a bike, 2 kids are on a skateboard. Show some different ways you can represent this relationship using pictures or models.
- Sixth graders at Mountain Crest Middle School are voting on where they want to go for their end-of-year field trip. They are choosing from the zoo and the planetarium. For each student that votes for the planetarium, two vote for the zoo.
 - Draw a tape diagram to model this relationship.
 - Complete the following statements:

The ratio of zoo votes to total votes is _____.

The ratio of zoo votes to planetarium votes is _____.

The ratio of planetarium votes to total votes is _____.

The ratio of total votes to planetarium votes is _____.
- A popular cereal brand is giving away baseball cards in some of its cereal boxes. Two out of every seven boxes of cereal contains a pack of baseball cards.
 - Draw a tape diagram to represent this situation.
 - Complete the following statements:

The ratio of boxes with baseball cards to boxes without baseball cards is _____:_____.

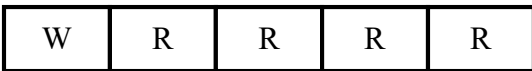
The ratio of boxes with baseball cards to total boxes is _____:_____.
- At Elsa's preschool, there is 1 adult in the room for every 10 children.
 - Draw a tape diagram to represent this situation.
 - Complete the following statements:

The ratio of adults to children in the classroom is _____:_____.

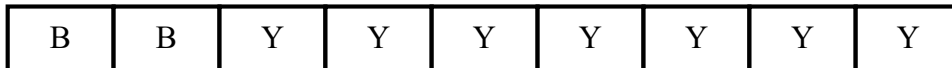
The ratio of children to adults in the classroom is _____:_____.

The ratio of children to people in the room is _____:_____.

5. Jeff's soccer team loses 2 soccer games for every 3 that they win.
- Draw a tape diagram to represent this situation.
 - Write three different ratios to describe this picture, tell whether the ratios are part to part (PP), part to total (PT), or total to part (TP).
6. Lauren's soccer team loses 2 soccer games for every 3 games that they play.
- Draw a tape diagram to represent this situation.
 - Compare this problem to the previous problem. Both have a ratio of 2:3. Do Jeff and Lauren's teams have the same winning record? Why or why not?
7. At Toby's school, students wear a uniform. Students can choose from a red shirt or a white shirt. The tape diagram below shows the ratio of white shirts sold to red shirts sold.



- Write three different ratio statements about the t-shirts sold. Tell whether your statement is a part to part (PP), part to total (PT), or total to part (TP).
8. The tape diagram below shows the ratio of blue paint to yellow paint used to make a certain shade of green paint.



- Complete the following statements:

The ratio of _____ to _____ is 7:2.

The ratio of _____ to _____ is 2:9.

The ratio of _____ to _____ is 7:9.

The ratio of _____ to _____ is 9:2.