Lesson 28: Two-Step Problems—All Operations

Problem Set

Use tape diagrams to solve each problem.

1. Dwayne scored points in the last basketball game, which is points more than his previous personal best. Lebron scored points more than Chris in the same game. Lebron scored the same number of points as Dwayne’s previous personal best. Let represent the number of points Dwayne scored during his previous personal best andrepresent the number of Chris’s points.
   1. How many points did Chris score during the game?
   2. If these are the only three players who scored, what was the team’s total number of points at the end of the game?
2. The number of customers at Yummy Smoothies varies throughout the day. During the lunch rush on Saturday, there were customers at Yummy Smoothies. The number of customers at Yummy Smoothies during dinner time was customers fewer than the number during breakfast. The number of customers at Yummy Smoothies during lunch was times more than during breakfast. How many people were at Yummy Smoothies during breakfast? How many people were at Yummy Smoothies during dinner? Let represent the number of customers at Yummy Smoothies during dinner and represent the number of customers at Yummy Smoothies during breakfast.
3. Karter has T-shirts. Karter has fewer pairs of shoes than pairs of pants. If the number of T-shirts Karter has is double the number of pants he has, how many pairs of shoes does Karter have? Let represent the number of pants Karter has and represent the number of pairs of shoes he has.
4. Darnell completed push-ups in one minute, which is more than his previous personal best. Mia completed more push-ups than Katie. If Mia completed the same amount of push-ups as Darnell completed during his previous personal best, how many push-ups did Katie complete? Let represent the number of push-ups Darnell completed during his previous personal best and represent the number of push-ups Katie completed.
5. Justine swims freestyle at a pace of laps per hour. Justine swims breaststroke laps per hour slower than she swims butterfly. If Justine’s freestyle speed is three times faster than her butterfly speed, how fast does she swim breaststroke? Let represent Justine’s butterfly speed in laps per hour and represent Justine’s breaststroke speed in laps per hour.