1) Stephanie and her friends were collecting cans to recycle. Stephanie collected 17. Her friend Jessica collected 6 times as many and her other friend Sarah collected 8 times as many. How many cans did they collect total?

2) In one day a restaurant used 40 knives. They also used 4 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

3) A movie theater typically sells 14 small sodas a day. They also sell about 7 times as many medium and 6 times as many large sodas. How many sodas do they sell in a day?

4) Chef Will buys 50 carrots. He buys 4 times as many potatoes as carrots and 3 times as many tomatoes as potatoes. How many vegetables did he buy all together?

5) A malt shop sold 29 vanilla shakes. They sold 7 times as many strawberry shakes and 9 times as many chocolate shakes. How many shakes did they sell total?
Solve each problem using a tape diagram.

1) Stephanie and her friends were collecting cans to recycle. Stephanie collected 17. Her friend Jessica collected 6 times as many and her other friend Sarah collected 8 times as many. How many cans did they collect total?

   Stephanie: 17
   Jessica: [Diagram]
   Sarah: [Diagram]

2) In one day a restaurant used 40 knives. They also used 4 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

   Knives: 40
   Forks: [Diagram]
   Spoons: [Diagram]

3) A movie theater typically sells 14 small sodas a day. They also sell about 7 times as many medium and 6 times as many large sodas. How many sodas do they sell in a day?

   Small: 14
   Medium: [Diagram]
   Large: [Diagram]

4) Chef Will buys 50 carrots. He buys 4 times as many potatoes as carrots and 3 times as many tomatoes as potatoes. How many vegetables did he buy all together?

   Carrots: 50
   Potatoes: [Diagram]
   Tomatoes: [Diagram]

5) A malt shop sold 29 vanilla shakes. They sold 7 times as many strawberry shakes and 9 times as many chocolate shakes. How many shakes did they sell total?

   Vanilla: 29
   Strawberry: [Diagram]
   Chocolate: [Diagram]