Solve each problem using a tape diagram.

Ex) Tiffany was trying to determine the weight of a small rock. She determined the small rock was $\frac{3}{9}$ as heavy as a medium rock. The medium rock was $\frac{9}{10}$ as heavy as a large rock. The large rock weighed 120 grams. How heavy was the small rock?

Ex. _____**36**_____

1. _____

2. _____

3. _____

1) A chef was ordering vegetables for his restaurant. He order $432 worth of potatoes. He also spent $\frac{2}{9}$ as much on tomatoes. Finally he spent $\frac{1}{2}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

4. _____

2) Two years ago the fair had $\frac{1}{2}$ as many people as 1 year ago. 1 year ago the fair had $\frac{2}{7}$ as many people as this year. This year the fair had 154 people. How many people did the fair have 2 years ago?

3) At the school fundraiser Adam earned $215. Bianca earned $\frac{2}{5}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?

4) Carol was looking at her Nintendo collection. She had 784 wiiU games. She had $\frac{4}{8}$ as many DS games and $\frac{1}{4}$ as many 3ds games as DS games. How many 3ds games does she have?

Answer Key

Solve each problem using a tape diagram.

Ex) Tiffany was trying to determine the weight of a small rock. She determined the small rock was $\frac{3}{9}$ as heavy as a medium rock. The medium rock was $\frac{9}{10}$ as heavy as a large rock. The large rock weighed 120 grams. How heavy was the small rock?
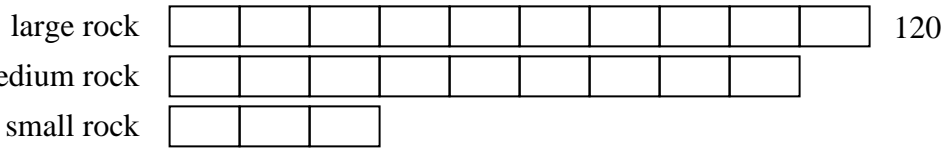
large rock ▢▢▢▢▢▢▢▢▢▢ 120
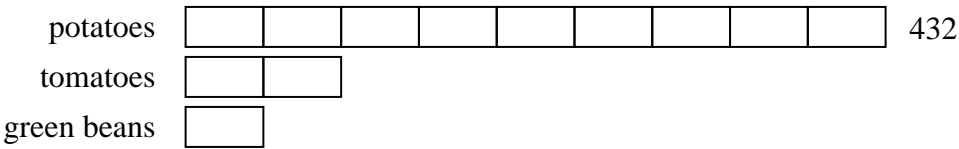
medium rock ▢▢▢▢▢▢▢▢▢

small rock ▢▢▢

Ex. **36**

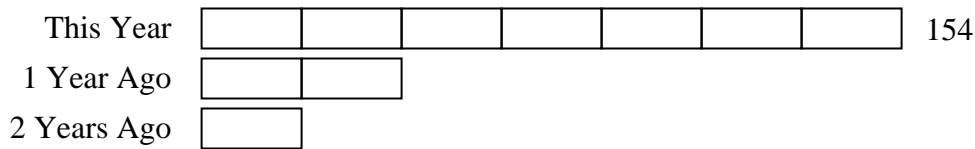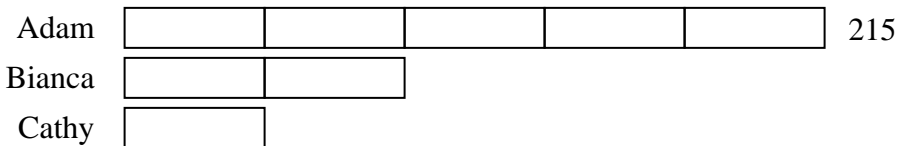**1)** A chef was ordering vegetables for his restaurant. He order $432 worth of potatoes. He also spent $\frac{2}{9}$ as much on tomatoes. Finally he spent $\frac{1}{2}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

potatoes ▢▢▢▢▢▢▢▢▢ 432

tomatoes ▢▢

green beans ▢

1. **48**

2) Two years ago the fair had $\frac{1}{2}$ as many people as 1 year ago. 1 year ago the fair had $\frac{2}{7}$ as many people as this year. This year the fair had 154 people. How many people did the fair have 2 years ago?

This Year ▢▢▢▢▢▢▢ 154

1 Year Ago ▢▢

2 Years Ago ▢

2. **22**

3. **43**

3) At the school fundraiser Adam earned $215. Bianca earned $\frac{2}{5}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?

Adam ▢▢▢▢▢ 215

Bianca ▢▢

Cathy ▢

4. **98**

4) Carol was looking at her Nintendo collection. She had 784 wiiU games. She had $\frac{4}{8}$ as many DS games and $\frac{1}{4}$ as many 3ds games as DS games. How many 3ds games does she have?

wii ▢▢▢▢▢▢▢▢ 784

DS ▢▢▢▢

3ds ▢

1-4 | 75 | 50 | 25 | 0