Solve each problem using a tape diagram.

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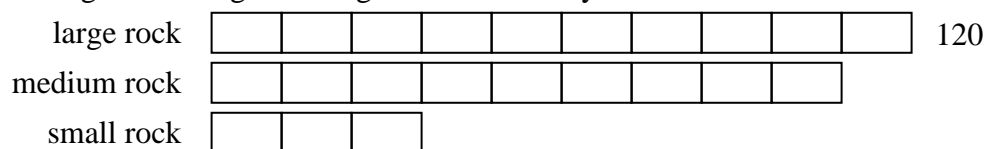
3) At the school fundraiser Adam earned $215. Bianca earned $\frac{2}{5}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?

4) Maria 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?
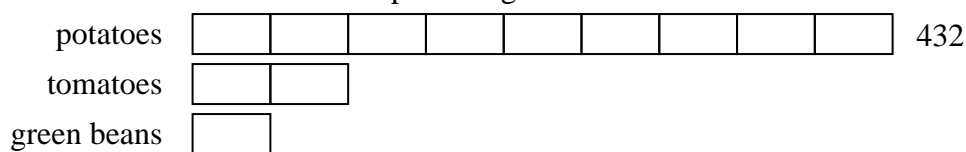
1-4 | 75 | 50 | 25 | 0

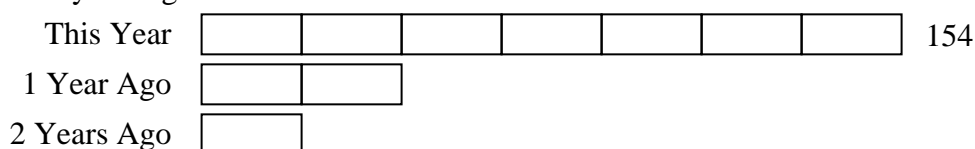**Answer Key**

Solve each problem using a tape diagram.

Ex) Sarah 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?
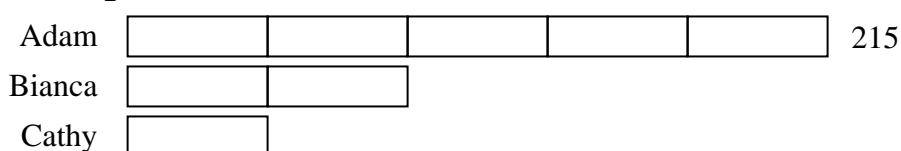
large rock [| | | | | | | | | |] 120

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?
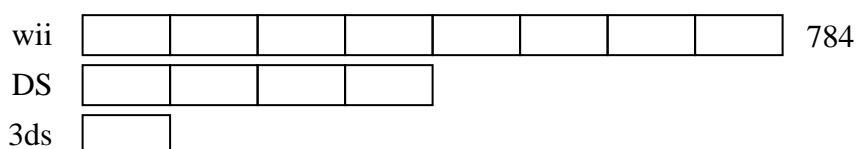
potatoes [| | | | | | | | |] 432

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) 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 [|]

3. ___**43**___

4) Maria 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 [|]

4. ___**98**___