Solve each problem using a tape diagram.

Ex) Vanessa was trying to determine the weight of a small rock. She determined the small rock was $\frac{2}{3}$ as heavy as a medium rock. The medium rock was $\frac{3}{9}$ as heavy as a large rock. The large rock weighed 468 grams. How heavy was the small rock?

Ex. _____**104**_____

1. _____

2. _____

3. _____

1) Two years ago the fair had $\frac{2}{4}$ as many people as 1 year ago. 1 year ago the fair had $\frac{4}{5}$ as many people as this year. This year the fair had 440 people. How many people did the fair have 2 years ago?

4. _____

2) At the school fundraiser Adam earned $192. Bianca earned $\frac{4}{8}$ as much as Adam. And Cathy earned $\frac{2}{4}$ as much as Bianca. How much did Cathy earn?

3) On Super Bowl Sunday a store sold 328 sodas. They sold $\frac{7}{8}$ as many bags of chips. They also sold $\frac{4}{7}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

4) Lana was looking at her Nintendo collection. She had 170 wiiU games. She had $\frac{3}{10}$ as many DS games and $\frac{2}{3}$ as many 3ds games as DS games. How many 3ds games does she have?
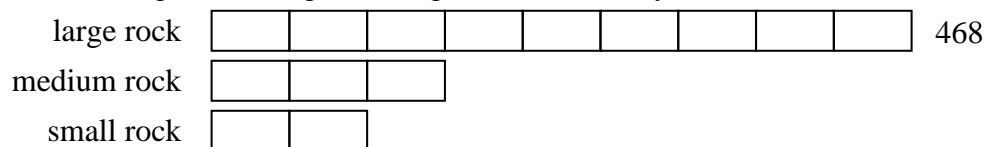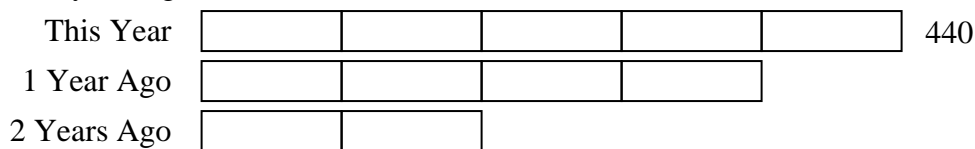
Math   www.CommonCoreSheets.com
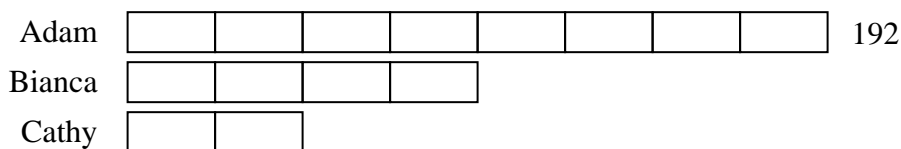
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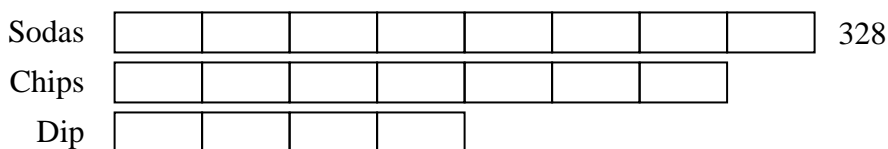
large rock [| | | | | | | | |] 468

medium rock [| |]

small rock [|]

Ex. **104**

1) Two years ago the fair had $\frac{2}{4}$ as many people as 1 year ago. 1 year ago the fair had $\frac{4}{5}$ as many people as this year. This year the fair had 440 people. How many people did the fair have 2 years ago?
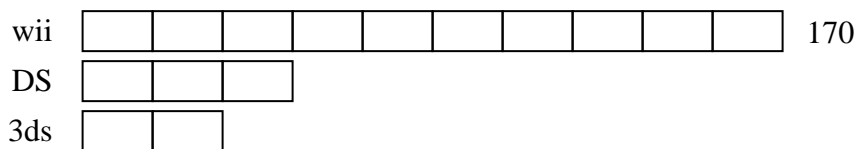
This Year [| | | |] 440

1 Year Ago [| | |]

2 Years Ago [|]

1. **176**

2) At the school fundraiser Adam earned $192. Bianca earned $\frac{4}{8}$ as much as Adam. And Cathy earned $\frac{2}{4}$ as much as Bianca. How much did Cathy earn?

Adam [| | | | | | |] 192

Bianca [| | |]

Cathy [|]

2. **48**

3) On Super Bowl Sunday a store sold 328 sodas. They sold $\frac{7}{8}$ as many bags of chips. They also sold $\frac{4}{7}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

Sodas [| | | | | | |] 328

Chips [| | | | | |]

Dip [| | |]

3. **164**

4) Lana was looking at her Nintendo collection. She had 170 wiiU games. She had $\frac{3}{10}$ as many DS games and $\frac{2}{3}$ as many 3ds games as DS games. How many 3ds games does she have?

wii [| | | | | | | | |] 170

DS [| |]

3ds [|]

4. **34**