Fraction Comparisons With Tape Diagram

Name:

Solve each problem using a tape diagram.

Ex) Debby was trying to determine the weight of a small rock. She determined the small rock was $\frac{1}{2}$ as heavy as a medium rock. The medium rock was $\frac{2}{5}$ as heavy as a large rock. The large rock weighed 365 grams. How heavy was the small rock?

1) Two years ago the fair had $\frac{1}{2}$ as many people as 1 year ago. 1 year ago the fair had $\frac{2}{6}$ as many people as this year. This year the fair had 150 people. How many people did the fair have 2 years ago?

2) Nancy was looking at her Nintendo collection. She had 480 wiiU games. She had $\frac{4}{5}$ as many DS games and $\frac{2}{4}$ as many 3ds games as DS games. How many 3ds games does she have?

3) On Super Bowl Sunday a store sold 406 sodas. They sold $\frac{3}{7}$ as many bags of chips. They also sold $\frac{2}{3}$ as many jars of dip as bags of chips. How many jars of dip did they sell?
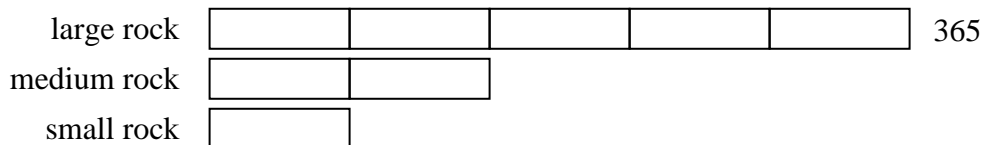
4) At the school fundraiser Adam earned $890. Bianca earned $\frac{7}{10}$ as much as Adam. And Cathy earned $\frac{3}{7}$ as much as Bianca. How much did Cathy earn?
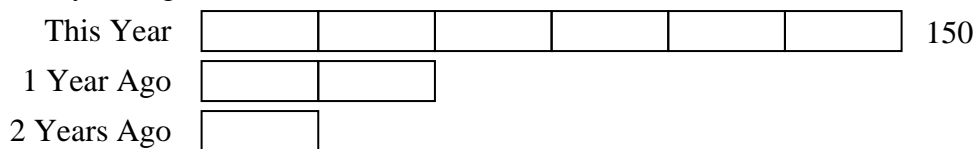
Answers

Ex. **73**

1. _____

2. _____

3. _____

4. _____

1-4 | 75 | 50 | 25 | 0

Math

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Answer Key

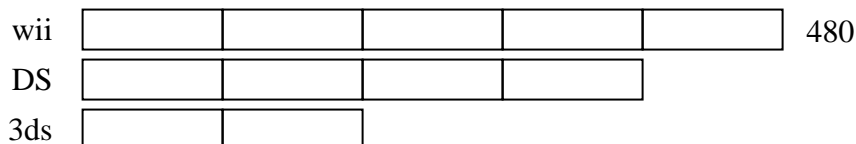**Solve each problem using a tape diagram.**

Ex) Debby was trying to determine the weight of a small rock. She determined the small rock was $\frac{1}{2}$ as heavy as a medium rock. The medium rock was $\frac{2}{5}$ as heavy as a large rock. The large rock weighed 365 grams. How heavy was the small rock?

large rock [| | | |] 365

medium rock [|]

small rock [ ]

Ex. **73**

1. **25**
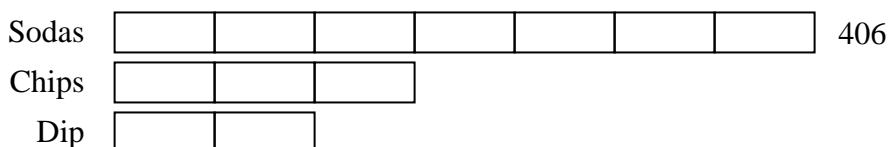
2. **192**

3. **116**

4. **267**

1) Two years ago the fair had $\frac{1}{2}$ as many people as 1 year ago. 1 year ago the fair had $\frac{2}{6}$ as many people as this year. This year the fair had 150 people. How many people did the fair have 2 years ago?

This Year [| | | | |] 150

1 Year Ago [|]

2 Years Ago [ ]

2) Nancy was looking at her Nintendo collection. She had 480 wiiU games. She had $\frac{4}{5}$ as many DS games and $\frac{2}{4}$ as many 3ds games as DS games. How many 3ds games does she have?

wii [| | | |] 480

DS [| | |]

3ds [|]

3) On Super Bowl Sunday a store sold 406 sodas. They sold $\frac{3}{7}$ as many bags of chips. They also sold $\frac{2}{3}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

Sodas [| | | | | |] 406

Chips [| |]

Dip [|]

4) At the school fundraiser Adam earned $890. Bianca earned $\frac{7}{10}$ as much as Adam. And Cathy earned $\frac{3}{7}$ as much as Bianca. How much did Cathy earn?

Adam [| | | | | | | |] 890

Bianca [| | | | | |]

Cathy [| |]

Math

1-4 | 75 | 50 | 25 | 0