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 $\frac{1}{2}$ as heavy as a medium rock. The medium rock was $\frac{2}{6}$ as heavy as a large rock. The large rock weighed 450 grams. How heavy was the small rock?

Ex. _____ **75**

1. _____

2. _____

3. _____

1) Olivia was looking at her Nintendo collection. She had 456 wiiU games. She had $\frac{2}{6}$ as many DS games and $\frac{1}{2}$ as many 3ds games as DS games. How many 3ds games does she have?

4. _____

2) On Super Bowl Sunday a store sold 480 sodas. They sold $\frac{5}{6}$ as many bags of chips. They also sold $\frac{3}{5}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

3) Two years ago the fair had $\frac{1}{3}$ as many people as 1 year ago. 1 year ago the fair had $\frac{3}{10}$ as many people as this year. This year the fair had 380 people. How many people did the fair have 2 years ago?

4) At the school fundraiser Adam earned $285. Bianca earned $\frac{2}{5}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?

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 $\frac{1}{2}$ as heavy as a medium rock. The medium rock was $\frac{2}{6}$ as heavy as a large rock. The large rock weighed 450 grams. How heavy was the small rock?

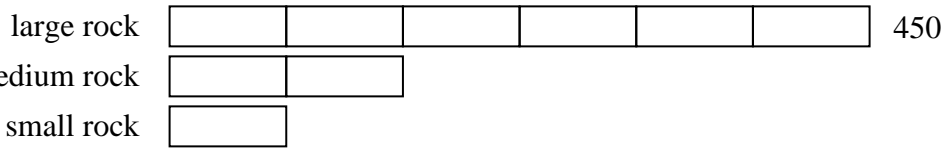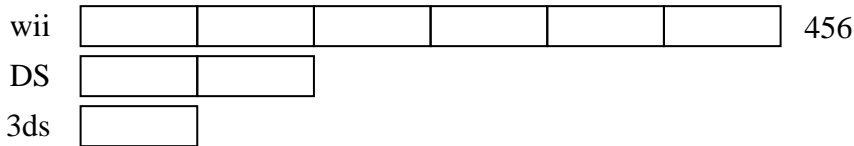large rock [ ][ ][ ][ ][ ][ ] 450

medium rock [ ][ ]
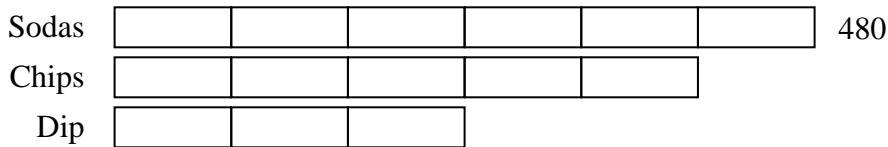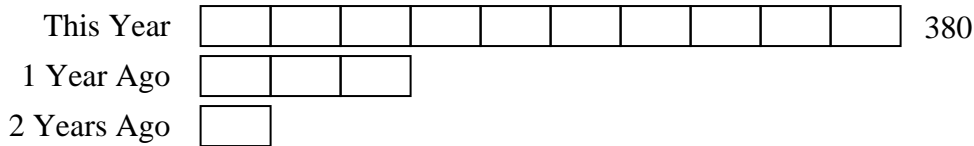
small rock [ ]

Ex. ___**75**___

1. ___**76**___

1) Olivia was looking at her Nintendo collection. She had 456 wiiU games. She had $\frac{2}{6}$ as many DS games and $\frac{1}{2}$ as many 3ds games as DS games. How many 3ds games does she have?
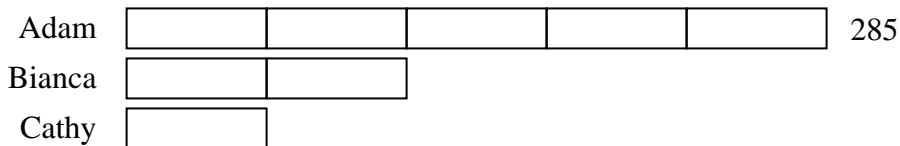
wii [ ][ ][ ][ ][ ][ ] 456

DS [ ][ ]

3ds [ ]

2. ___**240**___

3. ___**38**___

2) On Super Bowl Sunday a store sold 480 sodas. They sold $\frac{5}{6}$ as many bags of chips. They also sold $\frac{3}{5}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

Sodas [ ][ ][ ][ ][ ][ ] 480

Chips [ ][ ][ ][ ][ ]

Dip [ ][ ][ ]

4. ___**57**___

3) Two years ago the fair had $\frac{1}{3}$ as many people as 1 year ago. 1 year ago the fair had $\frac{3}{10}$ as many people as this year. This year the fair had 380 people. How many people did the fair have 2 years ago?

This Year [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] 380

1 Year Ago [ ][ ][ ]

2 Years Ago [ ]

4) At the school fundraiser Adam earned $285. 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 [ ][ ][ ][ ][ ] 285

Bianca [ ][ ]

Cathy [ ]

1-4 | 75 | 50 | 25 | 0

Solve each problem using a tape diagram.

Ex) On Super Bowl Sunday a store sold 155 sodas. They sold $\frac{4}{5}$ as many bags of chips. They also sold $\frac{2}{4}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

Ex. _____**62**_____

1. _____

2. _____

3. _____

1) Janet was looking at her Nintendo collection. She had 200 wiiU games. She had $\frac{2}{8}$ as many DS games and $\frac{1}{2}$ as many 3ds games as DS games. How many 3ds games does she have?

4. _____

2) At the school fundraiser Adam earned $465. Bianca earned $\frac{2}{5}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?
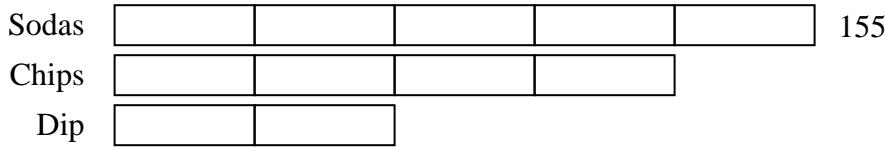
3) Two years ago the fair had $\frac{1}{2}$ as many people as 1 year ago. 1 year ago the fair had $\frac{2}{5}$ as many people as this year. This year the fair had 465 people. How many people did the fair have 2 years ago?

4) A chef was ordering vegetables for his restaurant. He order $96 worth of potatoes. He also spent $\frac{4}{6}$ as much on tomatoes. Finally he spent $\frac{2}{4}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?
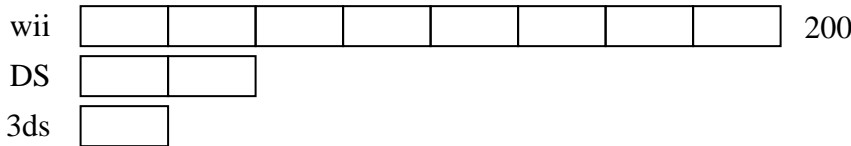
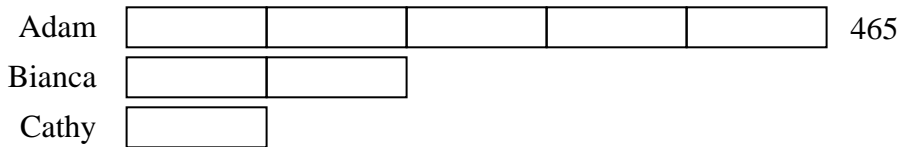**Answer Key**

Solve each problem using a tape diagram.

Ex) On Super Bowl Sunday a store sold 155 sodas. They sold $\frac{4}{5}$ as many bags of chips. They also sold $\frac{2}{4}$ as many jars of dip as bags of chips. How many jars of dip did they sell?
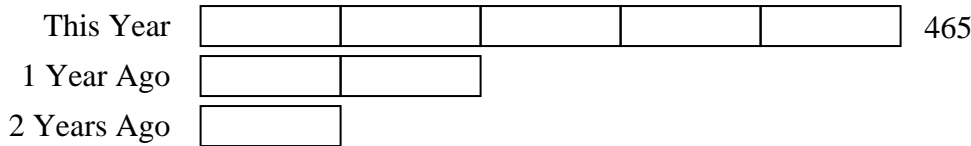
Sodas						155
Chips					
Dip			

Ex. **62**

1) Janet was looking at her Nintendo collection. She had 200 wiiU games. She had $\frac{2}{8}$ as many DS games and $\frac{1}{2}$ as many 3ds games as DS games. How many 3ds games does she have?
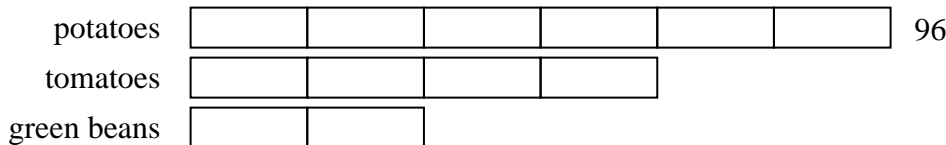
wii									200
DS			
3ds	

1. **25**

2) At the school fundraiser Adam earned $465. 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						465
Bianca		
Cathy	

2. **93**

3) Two years ago the fair had $\frac{1}{2}$ as many people as 1 year ago. 1 year ago the fair had $\frac{2}{5}$ as many people as this year. This year the fair had 465 people. How many people did the fair have 2 years ago?

This Year						465
1 Year Ago		
2 Years Ago	

3. **93**

4) A chef was ordering vegetables for his restaurant. He order $96 worth of potatoes. He also spent $\frac{4}{6}$ as much on tomatoes. Finally he spent $\frac{2}{4}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

potatoes						96
tomatoes				
green beans		

4. **32**

1-4 | 75 | 50 | 25 | 0

Solve each problem using a tape diagram.

Ex) A chef was ordering vegetables for his restaurant. He order $801 worth of potatoes. He also spent $7/9$ as much on tomatoes. Finally he spent $6/7$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

1) On Super Bowl Sunday a store sold 294 sodas. They sold $2/7$ as many bags of chips. They also sold $1/2$ as many jars of dip as bags of chips. How many jars of dip did they sell?

2) Lana was looking at her Nintendo collection. She had 581 wiiU games. She had $2/7$ as many DS games and $1/2$ as many 3ds games as DS games. How many 3ds games does she have?
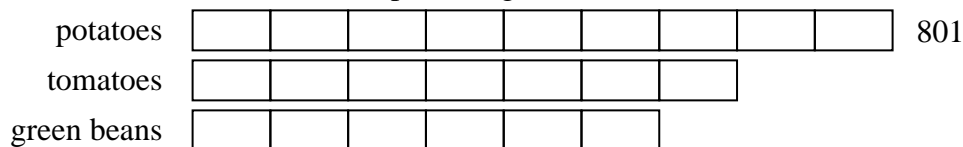
3) At the school fundraiser Adam earned $552. Bianca earned $2/6$ as much as Adam. And Cathy earned $1/2$ as much as Bianca. How much did Cathy earn?

4) Carol was trying to determine the weight of a small rock. She determined the small rock was $3/4$ as heavy as a medium rock. The medium rock was $4/8$ as heavy as a large rock. The large rock weighed 144 grams. How heavy was the small rock?

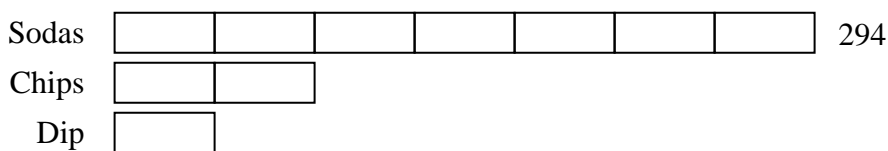Ex. _____**534**_____

1. _____

2. _____

3. _____

4. _____

Name:

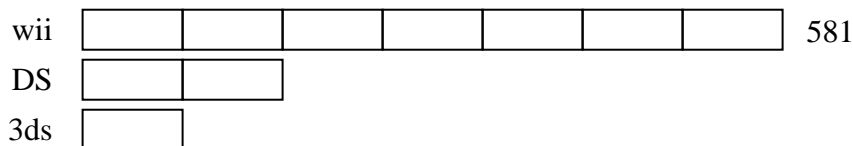**Solve each problem using a tape diagram.**

Answers

Ex) A chef was ordering vegetables for his restaurant. He order $801 worth of potatoes. He also spent $\frac{7}{9}$ as much on tomatoes. Finally he spent $\frac{6}{7}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?
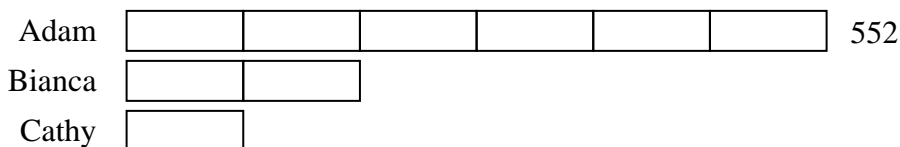
potatoes | 801
tomatoes
green beans

Ex. **534**

1. **42**

2. **83**

3. **92**

4. **54**

1) On Super Bowl Sunday a store sold 294 sodas. They sold $\frac{2}{7}$ as many bags of chips. They also sold $\frac{1}{2}$ as many jars of dip as bags of chips. How many jars of dip did they sell?
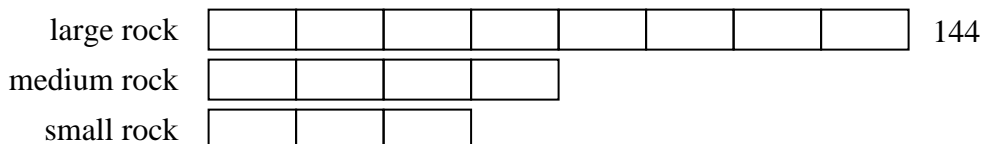
Sodas | 294
Chips
Dip

2) Lana was looking at her Nintendo collection. She had 581 wiiU games. She had $\frac{2}{7}$ as many DS games and $\frac{1}{2}$ as many 3ds games as DS games. How many 3ds games does she have?

wii | 581
DS
3ds

3) At the school fundraiser Adam earned $552. Bianca earned $\frac{2}{6}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?

Adam | 552
Bianca
Cathy

4) Carol was trying to determine the weight of a small rock. She determined the small rock was $\frac{3}{4}$ as heavy as a medium rock. The medium rock was $\frac{4}{8}$ as heavy as a large rock. The large rock weighed 144 grams. How heavy was the small rock?

large rock | 144
medium rock
small rock

1-4 | 75 | 50 | 25 | 0

Solve each problem using a tape diagram.

Ex) A chef was ordering vegetables for his restaurant. He order $630 worth of potatoes. He also spent $\frac{6}{10}$ as much on tomatoes. Finally he spent $\frac{4}{6}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

Ex. _____ **252**

1. _____

2. _____

3. _____

1) On Super Bowl Sunday a store sold 276 sodas. They sold $\frac{5}{6}$ as many bags of chips. They also sold $\frac{4}{5}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

4. _____

2) Lana was trying to determine the weight of a small rock. She determined the small rock was $\frac{1}{6}$ as heavy as a medium rock. The medium rock was $\frac{6}{8}$ as heavy as a large rock. The large rock weighed 672 grams. How heavy was the small rock?
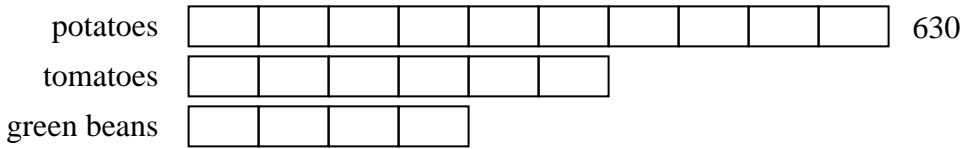
3) At the school fundraiser Adam earned $455. Bianca earned $\frac{5}{7}$ as much as Adam. And Cathy earned $\frac{1}{5}$ as much as Bianca. How much did Cathy earn?

4) Two years ago the fair had $\frac{3}{4}$ 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 305 people. How many people did the fair have 2 years ago?
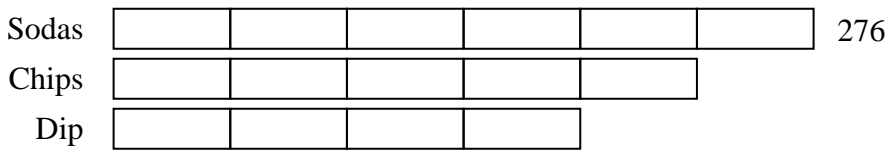
Fraction Comparisons With Tape Diagram

Name: **Answer Key**

Solve each problem using a tape diagram.

Answers

Ex.	**252**
1.	**184**
2.	**84**
3.	**65**
4.	**183**

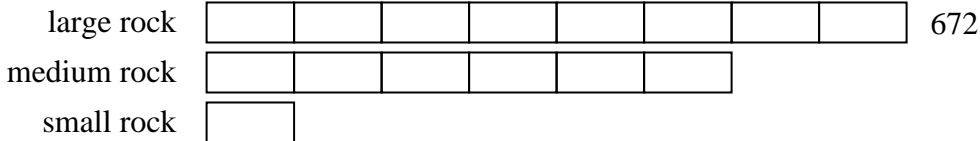**Ex)** A chef was ordering vegetables for his restaurant. He order $630 worth of potatoes. He also spent $6/10$ as much on tomatoes. Finally he spent $4/6$ as much on green beans as he did on tomatoes. How much did he spend on green beans?
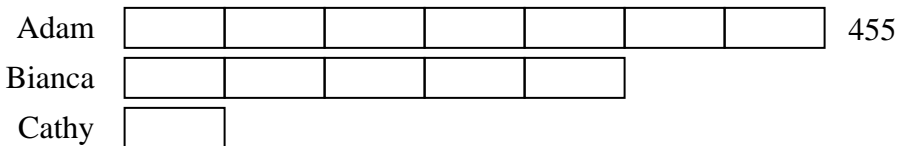
potatoes ☐☐☐☐☐☐☐☐☐☐ 630
tomatoes ☐☐☐☐☐☐
green beans ☐☐☐☐

1) On Super Bowl Sunday a store sold 276 sodas. They sold $5/6$ as many bags of chips. They also sold $4/5$ as many jars of dip as bags of chips. How many jars of dip did they sell?
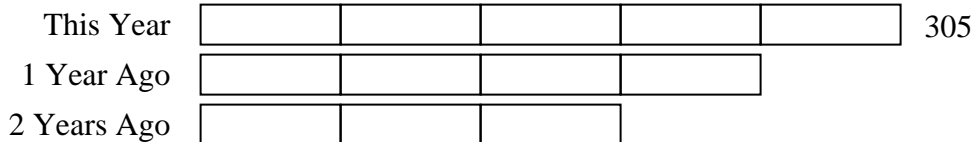
Sodas ☐☐☐☐☐☐ 276
Chips ☐☐☐☐☐
Dip ☐☐☐☐

2) Lana was trying to determine the weight of a small rock. She determined the small rock was $1/6$ as heavy as a medium rock. The medium rock was $6/8$ as heavy as a large rock. The large rock weighed 672 grams. How heavy was the small rock?

large rock ☐☐☐☐☐☐☐☐ 672
medium rock ☐☐☐☐☐☐
small rock ☐

3) At the school fundraiser Adam earned $455. Bianca earned $5/7$ as much as Adam. And Cathy earned $1/5$ as much as Bianca. How much did Cathy earn?

Adam ☐☐☐☐☐☐☐ 455
Bianca ☐☐☐☐☐
Cathy ☐

4) Two years ago the fair had $3/4$ as many people as 1 year ago. 1 year ago the fair had $4/5$ as many people as this year. This year the fair had 305 people. How many people did the fair have 2 years ago?

This Year ☐☐☐☐☐ 305
1 Year Ago ☐☐☐☐
2 Years Ago ☐☐☐

Math www.CommonCoreSheets.com 4

1-4 | 75 | 50 | 25 | 0

Solve each problem using a tape diagram.

Ex) Two years ago the fair had $\frac{1}{3}$ as many people as 1 year ago. 1 year ago the fair had $\frac{3}{6}$ as many people as this year. This year the fair had 96 people. How many people did the fair have 2 years ago?

Ex. **16**

1. _____

2. _____

3. _____

1) A chef was ordering vegetables for his restaurant. He order $245 worth of potatoes. He also spent $\frac{4}{7}$ as much on tomatoes. Finally he spent $\frac{2}{4}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

4. _____

2) At the school fundraiser Adam earned $610. Bianca earned $\frac{7}{10}$ as much as Adam. And Cathy earned $\frac{4}{7}$ as much as Bianca. How much did Cathy earn?

3) On Super Bowl Sunday a store sold 180 sodas. They sold $\frac{5}{6}$ as many bags of chips. They also sold $\frac{4}{5}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

4) Maria was looking at her Nintendo collection. She had 480 wiiU games. She had $\frac{6}{8}$ as many DS games and $\frac{3}{6}$ as many 3ds games as DS games. How many 3ds games does she have?

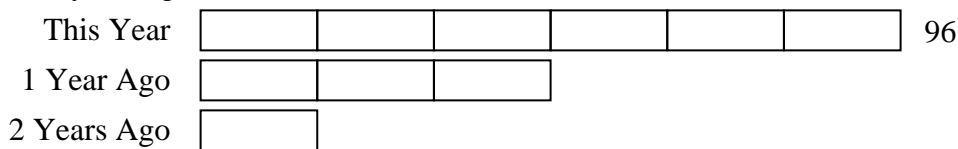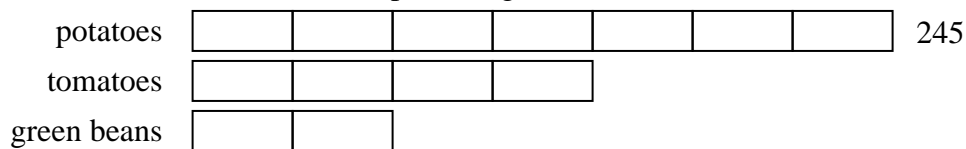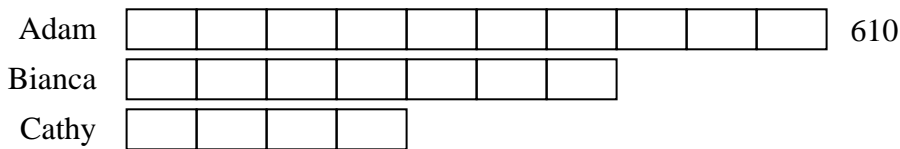**Solve each problem using a tape diagram.**

Ex) Two years ago the fair had $\frac{1}{3}$ as many people as 1 year ago. 1 year ago the fair had $\frac{3}{6}$ as many people as this year. This year the fair had 96 people. How many people did the fair have 2 years ago?
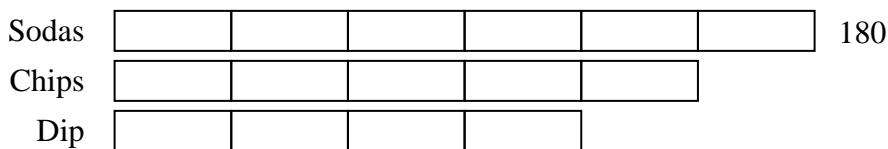
Ex. **16**

This Year ⬚⬚⬚⬚⬚⬚ 96
1 Year Ago ⬚⬚⬚
2 Years Ago ⬚

1. **70**

1) A chef was ordering vegetables for his restaurant. He order $245 worth of potatoes. He also spent $\frac{4}{7}$ as much on tomatoes. Finally he spent $\frac{2}{4}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?
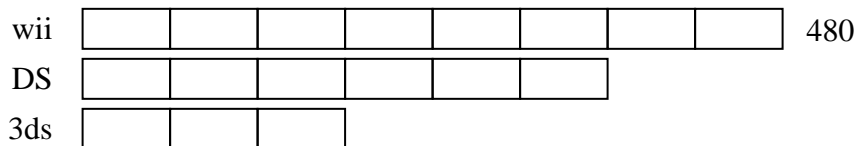
2. **244**

potatoes ⬚⬚⬚⬚⬚⬚⬚ 245
tomatoes ⬚⬚⬚⬚
green beans ⬚⬚

3. **120**

2) At the school fundraiser Adam earned $610. Bianca earned $\frac{7}{10}$ as much as Adam. And Cathy earned $\frac{4}{7}$ as much as Bianca. How much did Cathy earn?

4. **180**

Adam ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚ 610
Bianca ⬚⬚⬚⬚⬚⬚⬚
Cathy ⬚⬚⬚⬚

3) On Super Bowl Sunday a store sold 180 sodas. They sold $\frac{5}{6}$ as many bags of chips. They also sold $\frac{4}{5}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

Sodas ⬚⬚⬚⬚⬚⬚ 180
Chips ⬚⬚⬚⬚⬚
Dip ⬚⬚⬚⬚

4) Maria was looking at her Nintendo collection. She had 480 wiiU games. She had $\frac{6}{8}$ as many DS games and $\frac{3}{6}$ as many 3ds games as DS games. How many 3ds games does she have?

wii ⬚⬚⬚⬚⬚⬚⬚⬚ 480
DS ⬚⬚⬚⬚⬚⬚
3ds ⬚⬚⬚

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?
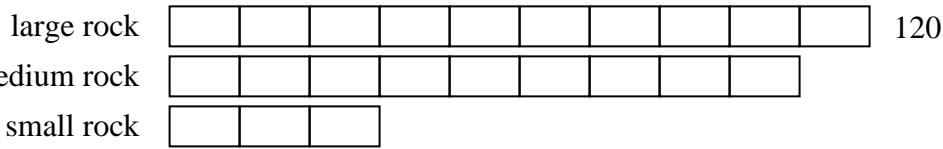
large rock ☐☐☐☐☐☐☐☐☐☐ 120
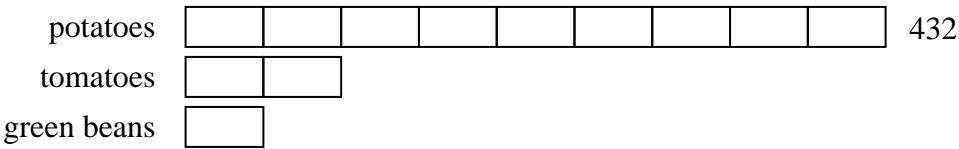
medium rock ☐☐☐☐☐☐☐☐☐

small rock ☐☐☐

Ex. **36**

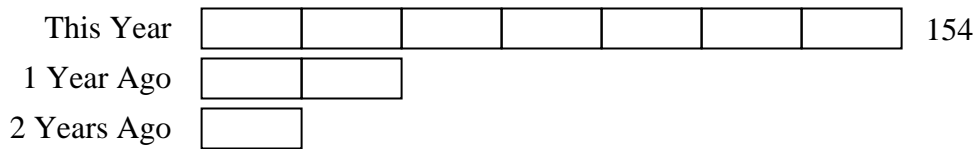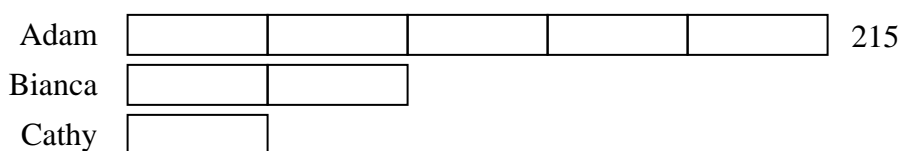**1)** A chef was ordering vegetables for his restaurant. He order $432 worth of potatoes. He also spent $\frac{2}{9}$ as much on tomatoes. Finally he spent $\frac{1}{2}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?
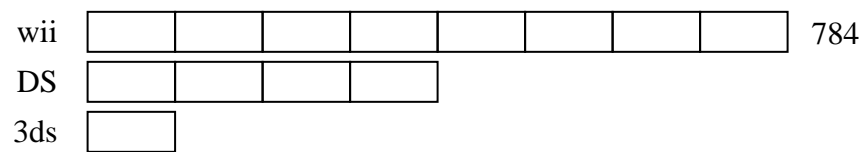
potatoes ☐☐☐☐☐☐☐☐☐ 432

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) 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) 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 ☐

4. **98**

Solve each problem using a tape diagram.

Ex) Tiffany was looking at her Nintendo collection. She had 168 wiiU games. She had $\frac{7}{8}$ as many DS games and $\frac{5}{7}$ as many 3ds games as DS games. How many 3ds games does she have?

Ex. **105**

1. _____

2. _____

3. _____

1) A chef was ordering vegetables for his restaurant. He order $261 worth of potatoes. He also spent $\frac{8}{9}$ as much on tomatoes. Finally he spent $\frac{4}{8}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

4. _____

2) Lana 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 $\frac{3}{5}$ as heavy as a large rock. The large rock weighed 330 grams. How heavy was the small rock?
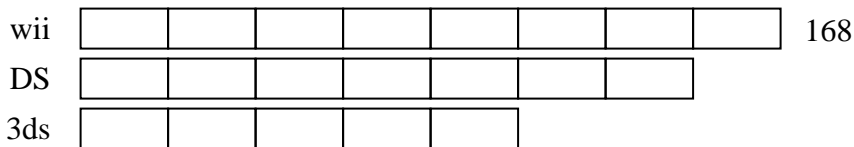
3) At the school fundraiser Adam earned $432. Bianca earned $\frac{6}{8}$ as much as Adam. And Cathy earned $\frac{4}{6}$ as much as Bianca. How much did Cathy earn?

4) Two years ago the fair had $\frac{1}{4}$ 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 215 people. How many people did the fair have 2 years ago?
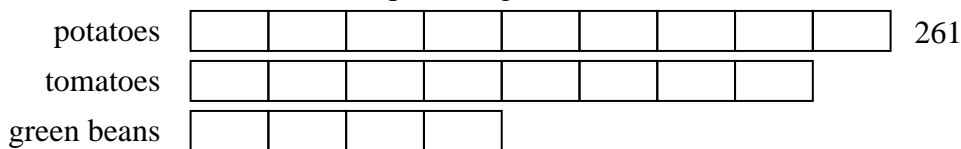
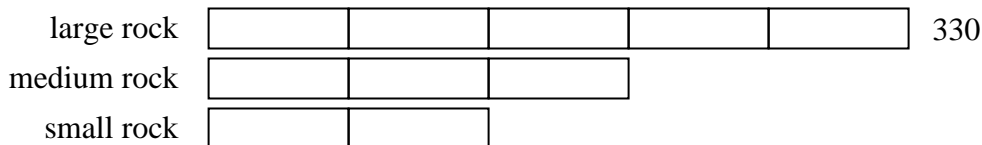**Answer Key**

Solve each problem using a tape diagram.

Ex) Tiffany was looking at her Nintendo collection. She had 168 wiiU games. She had $\frac{7}{8}$ as many DS games and $\frac{5}{7}$ as many 3ds games as DS games. How many 3ds games does she have?
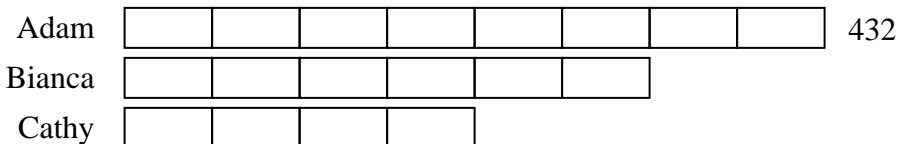
| wii | | | | | | | | | 168 |

| DS | | | | | | | |

| 3ds | | | | |

1) A chef was ordering vegetables for his restaurant. He order $261 worth of potatoes. He also spent $\frac{8}{9}$ as much on tomatoes. Finally he spent $\frac{4}{8}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?
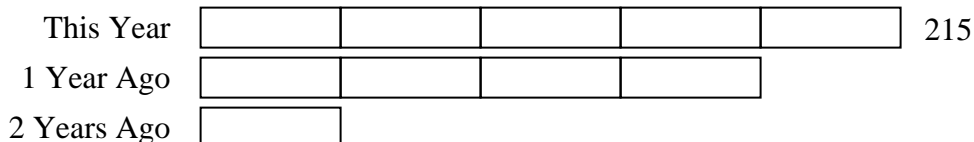
| potatoes | | | | | | | | | 261 |

| tomatoes | | | | | | | |

| green beans | | | |

2) Lana 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 $\frac{3}{5}$ as heavy as a large rock. The large rock weighed 330 grams. How heavy was the small rock?

| large rock | | | | | | 330 |

| medium rock | | | |

| small rock | | |

3) At the school fundraiser Adam earned $432. Bianca earned $\frac{6}{8}$ as much as Adam. And Cathy earned $\frac{4}{6}$ as much as Bianca. How much did Cathy earn?

| Adam | | | | | | | | | 432 |

| Bianca | | | | | | |

| Cathy | | | |

4) Two years ago the fair had $\frac{1}{4}$ 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 215 people. How many people did the fair have 2 years ago?
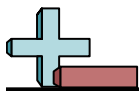
| This Year | | | | | | 215 |

| 1 Year Ago | | | | |

| 2 Years Ago | |

Answers:

Ex. **105**

1. **116**

2. **132**

3. **216**

4. **43**

Solve each problem using a tape diagram.

Ex) Tiffany was looking at her Nintendo collection. She had 414 wiiU games. She had $\frac{2}{6}$ as many DS games and $\frac{1}{2}$ as many 3ds games as DS games. How many 3ds games does she have?

Ex. _____**69**_____

1. _____

2. _____

3. _____

4. _____

1) Janet was trying to determine the weight of a small rock. She determined the small rock was $\frac{1}{3}$ as heavy as a medium rock. The medium rock was $\frac{3}{7}$ as heavy as a large rock. The large rock weighed 357 grams. How heavy was the small rock?

2) At the school fundraiser Adam earned $160. Bianca earned $\frac{2}{10}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?
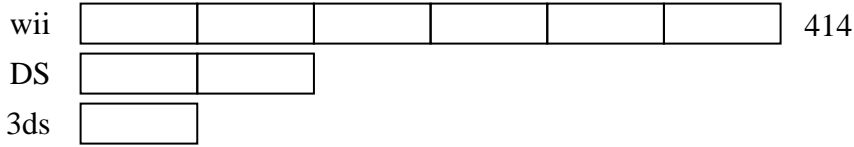
3) A chef was ordering vegetables for his restaurant. He order $380 worth of potatoes. He also spent $\frac{8}{10}$ as much on tomatoes. Finally he spent $\frac{1}{8}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

4) Two years ago the fair had $\frac{2}{4}$ as many people as 1 year ago. 1 year ago the fair had $\frac{4}{10}$ as many people as this year. This year the fair had 900 people. How many people did the fair have 2 years ago?
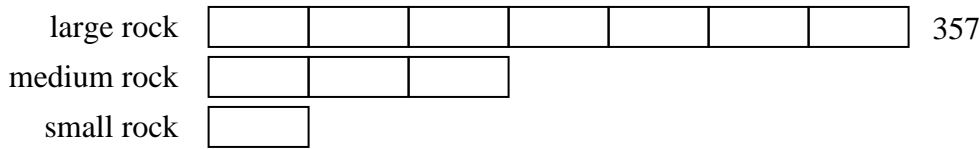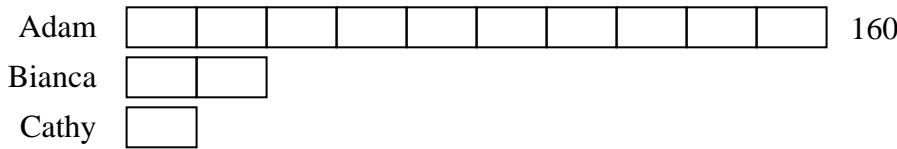
Solve each problem using a tape diagram.

Ex) Tiffany was looking at her Nintendo collection. She had 414 wiiU games. She had $\frac{2}{6}$ as many DS games and $\frac{1}{2}$ as many 3ds games as DS games. How many 3ds games does she have?
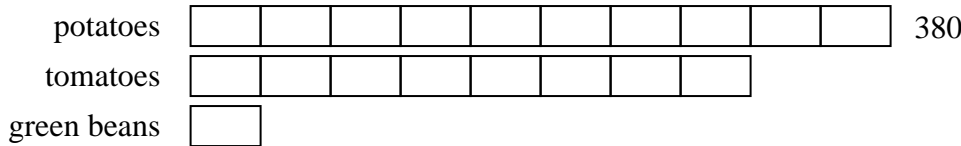
| wii | | | | | | | 414 |

| DS | | |

| 3ds | |

Ex. _____ **69**

1. _____ **51**

2. _____ **16**

3. _____ **38**

4. _____ **180**

1) Janet was trying to determine the weight of a small rock. She determined the small rock was $\frac{1}{3}$ as heavy as a medium rock. The medium rock was $\frac{3}{7}$ as heavy as a large rock. The large rock weighed 357 grams. How heavy was the small rock?
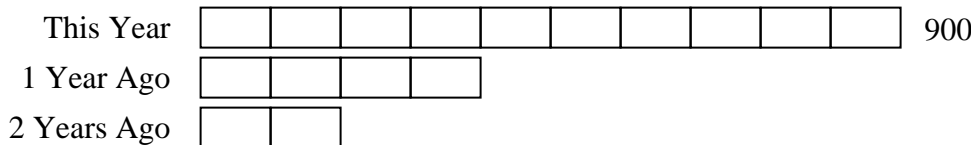
| large rock | | | | | | | 357 |

| medium rock | | |

| small rock |

2) At the school fundraiser Adam earned $160. Bianca earned $\frac{2}{10}$ as much as Adam. And Cathy earned $\frac{1}{2}$ as much as Bianca. How much did Cathy earn?

| Adam | | | | | | | | | | 160 |

| Bianca | |

| Cathy |

3) A chef was ordering vegetables for his restaurant. He order $380 worth of potatoes. He also spent $\frac{8}{10}$ as much on tomatoes. Finally he spent $\frac{1}{8}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

| potatoes | | | | | | | | | | 380 |

| tomatoes | | | | | | | |

| green beans |

4) Two years ago the fair had $\frac{2}{4}$ as many people as 1 year ago. 1 year ago the fair had $\frac{4}{10}$ as many people as this year. This year the fair had 900 people. How many people did the fair have 2 years ago?

| This Year | | | | | | | | | | 900 |

| 1 Year Ago | | | |

| 2 Years Ago | |

Solve each problem using a tape diagram.

Ex) A chef was ordering vegetables for his restaurant. He order $243 worth of potatoes. He also spent $7/9$ as much on tomatoes. Finally he spent $1/7$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

Ex. _____**27**_____

1. _____

2. _____

3. _____

1) Two years ago the fair had $4/7$ as many people as 1 year ago. 1 year ago the fair had $7/8$ as many people as this year. This year the fair had 736 people. How many people did the fair have 2 years ago?

4. _____

2) On Super Bowl Sunday a store sold 318 sodas. They sold $2/6$ as many bags of chips. They also sold $1/2$ as many jars of dip as bags of chips. How many jars of dip did they sell?
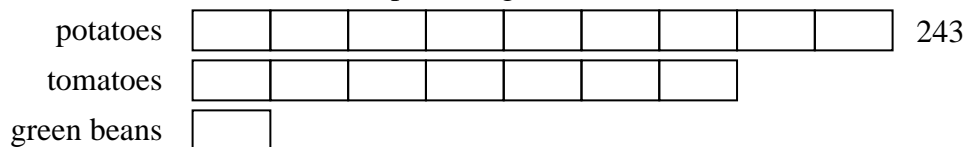
3) Emily was looking at her Nintendo collection. She had 100 wiiU games. She had $6/10$ as many DS games and $4/6$ as many 3ds games as DS games. How many 3ds games does she have?

4) At the school fundraiser Adam earned $585. Bianca earned $3/9$ as much as Adam. And Cathy earned $2/3$ as much as Bianca. How much did Cathy earn?
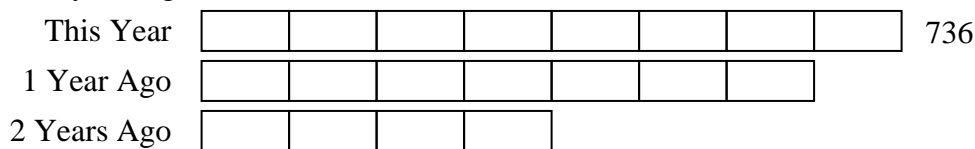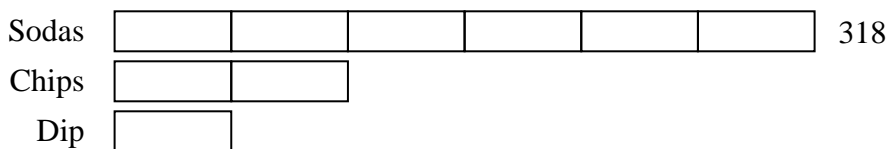
Solve each problem using a tape diagram.

Ex) A chef was ordering vegetables for his restaurant. He order $243 worth of potatoes. He also spent $\frac{7}{9}$ as much on tomatoes. Finally he spent $\frac{1}{7}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?
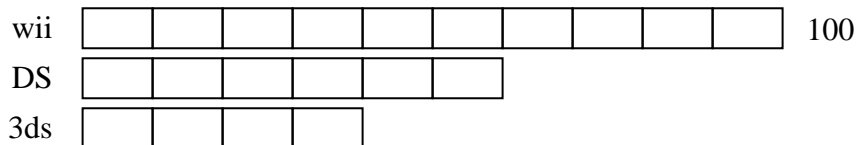
potatoes										243
tomatoes							
green beans	

1) Two years ago the fair had $\frac{4}{7}$ as many people as 1 year ago. 1 year ago the fair had $\frac{7}{8}$ as many people as this year. This year the fair had 736 people. How many people did the fair have 2 years ago?
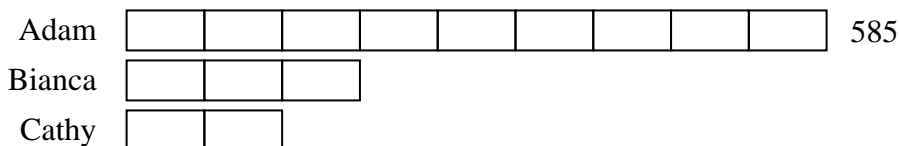
This Year									736
1 Year Ago							
2 Years Ago				

2) On Super Bowl Sunday a store sold 318 sodas. They sold $\frac{2}{6}$ as many bags of chips. They also sold $\frac{1}{2}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

Sodas							318
Chips		
Dip	

3) Emily was looking at her Nintendo collection. She had 100 wiiU games. She had $\frac{6}{10}$ as many DS games and $\frac{4}{6}$ as many 3ds games as DS games. How many 3ds games does she have?

wii										100
DS					
3ds			

4) At the school fundraiser Adam earned $585. Bianca earned $\frac{3}{9}$ as much as Adam. And Cathy earned $\frac{2}{3}$ as much as Bianca. How much did Cathy earn?

Adam									585
Bianca			
Cathy		

Solve each problem using a tape diagram.

Ex) At the school fundraiser Adam earned $210. Bianca earned $\frac{6}{10}$ as much as Adam. And Cathy earned $\frac{5}{6}$ as much as Bianca. How much did Cathy earn?

Ex. _____ **105** _____

1. _____

2. _____

3. _____

1) Two years ago the fair had $\frac{3}{4}$ as many people as 1 year ago. 1 year ago the fair had $\frac{4}{7}$ as many people as this year. This year the fair had 343 people. How many people did the fair have 2 years ago?

4. _____

2) On Super Bowl Sunday a store sold 408 sodas. They sold $\frac{5}{8}$ as many bags of chips. They also sold $\frac{2}{5}$ as many jars of dip as bags of chips. How many jars of dip did they sell?

3) Janet was looking at her Nintendo collection. She had 340 wiiU games. She had $\frac{6}{10}$ as many DS games and $\frac{4}{6}$ as many 3ds games as DS games. How many 3ds games does she have?
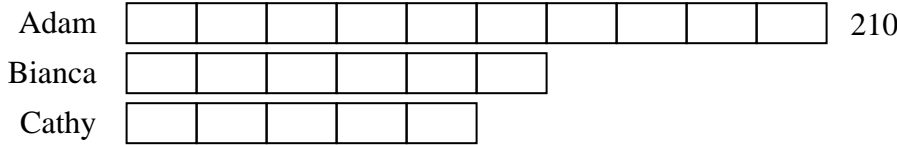
4) Bianca was trying to determine the weight of a small rock. She determined the small rock was $\frac{3}{8}$ as heavy as a medium rock. The medium rock was $\frac{8}{10}$ as heavy as a large rock. The large rock weighed 870 grams. How heavy was the small rock?

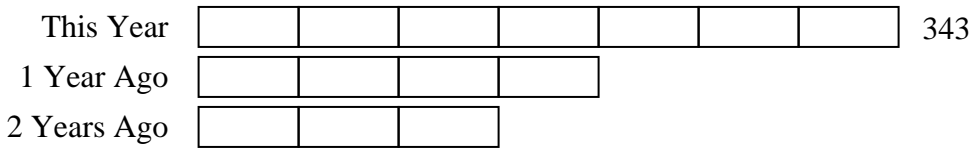**Solve each problem using a tape diagram.**

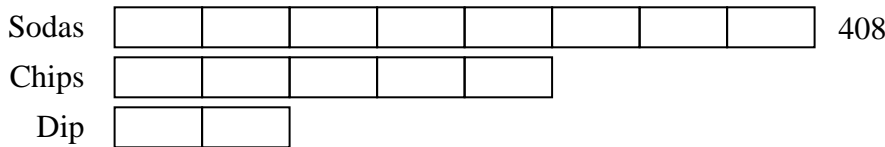**Ex)** At the school fundraiser Adam earned \$210. Bianca earned $^6/_{10}$ as much as Adam. And Cathy earned $^5/_6$ as much as Bianca. How much did Cathy earn?
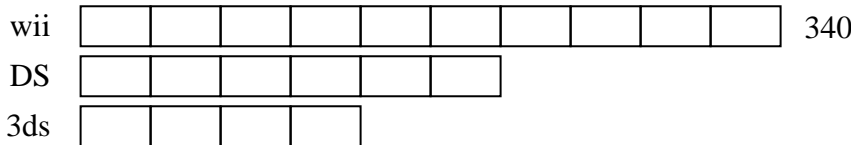
Adam											210
Bianca						
Cathy					

Ex. **105**

1) Two years ago the fair had $^3/_4$ as many people as 1 year ago. 1 year ago the fair had $^4/_7$ as many people as this year. This year the fair had 343 people. How many people did the fair have 2 years ago?
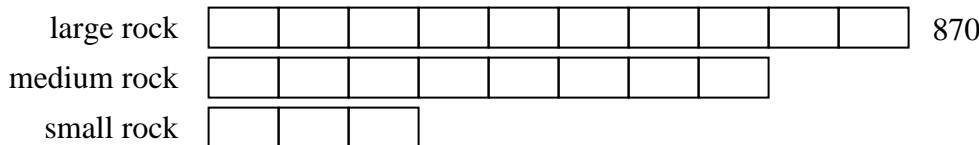
This Year								343
1 Year Ago				
2 Years Ago			

1. **147**

2) On Super Bowl Sunday a store sold 408 sodas. They sold $^5/_8$ as many bags of chips. They also sold $^2/_5$ as many jars of dip as bags of chips. How many jars of dip did they sell?

Sodas									408
Chips					
Dip		

2. **102**

3) Janet was looking at her Nintendo collection. She had 340 wiiU games. She had $^6/_{10}$ as many DS games and $^4/_6$ as many 3ds games as DS games. How many 3ds games does she have?

wii										340
DS						
3ds			

3. **136**

4) Bianca was trying to determine the weight of a small rock. She determined the small rock was $^3/_8$ as heavy as a medium rock. The medium rock was $^8/_{10}$ as heavy as a large rock. The large rock weighed 870 grams. How heavy was the small rock?

large rock										870
medium rock							
small rock			

4. **261**