Fraction Comparisons With Tape Diagram

Name: _____

Solve each problem using a tape diagram.

Ex) Two years ago the fair had $\frac{1}{4}$ 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 112 people. How many people did the fair have 2 years ago?

Ex. **16**

1. _____

2. _____

3. _____

1) Nancy was looking at her Nintendo collection. She had 100 wiiU games. She had $\frac{3}{5}$ as many DS games and $\frac{1}{3}$ as many 3ds games as DS games. How many 3ds games does she have?

4. _____

2) A chef was ordering vegetables for his restaurant. He order $216 worth of potatoes. He also spent $\frac{3}{6}$ as much on tomatoes. Finally he spent $\frac{1}{3}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

3) Olivia was trying to determine the weight of a small rock. She determined the small rock was $\frac{3}{6}$ as heavy as a medium rock. The medium rock was $\frac{6}{8}$ as heavy as a large rock. The large rock weighed 216 grams. How heavy was the small rock?
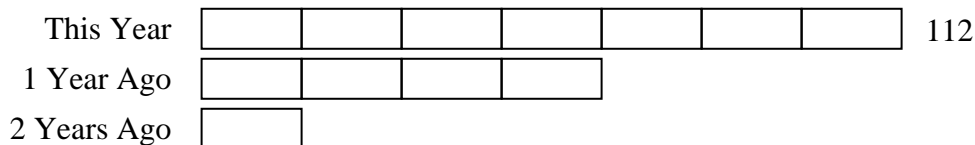
4) At the school fundraiser Adam earned $469. Bianca earned $\frac{5}{7}$ as much as Adam. And Cathy earned $\frac{2}{5}$ as much as Bianca. How much did Cathy earn?
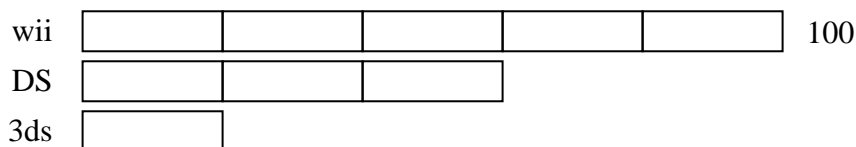
Math   www.CommonCoreSheets.com

Answer Key

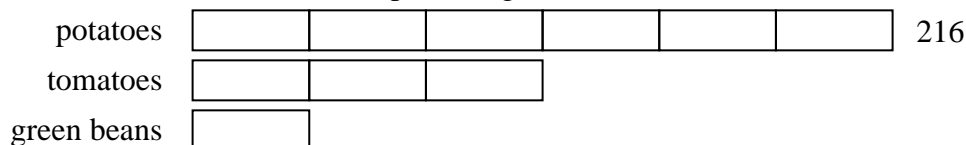**Solve each problem using a tape diagram.**

Ex) Two years ago the fair had $\frac{1}{4}$ 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 112 people. How many people did the fair have 2 years ago?

| This Year | | | | | | | | 112 |

| 1 Year Ago | | | | |

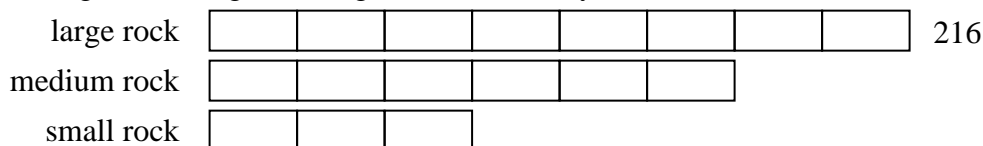| 2 Years Ago | |

Ex. **16**

1. **20**

1) Nancy was looking at her Nintendo collection. She had 100 wiiU games. She had $\frac{3}{5}$ as many DS games and $\frac{1}{3}$ as many 3ds games as DS games. How many 3ds games does she have?

| wii | | | | | | 100 |

| DS | | | |

| 3ds | |

2. **36**

2) A chef was ordering vegetables for his restaurant. He order \$216 worth of potatoes. He also spent $\frac{3}{6}$ as much on tomatoes. Finally he spent $\frac{1}{3}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

| potatoes | | | | | | | 216 |

| tomatoes | | | |

| green beans | |

3. **81**

3) Olivia was trying to determine the weight of a small rock. She determined the small rock was $\frac{3}{6}$ as heavy as a medium rock. The medium rock was $\frac{6}{8}$ as heavy as a large rock. The large rock weighed 216 grams. How heavy was the small rock?

| large rock | | | | | | | | 216 |

| medium rock | | | | | |

| small rock | | |

4. **134**

4) At the school fundraiser Adam earned \$469. Bianca earned $\frac{5}{7}$ as much as Adam. And Cathy earned $\frac{2}{5}$ as much as Bianca. How much did Cathy earn?

| Adam | | | | | | | 469 |

| Bianca | | | | |

| Cathy | |