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) 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?

1. _____

2. _____

3. _____

4. _____

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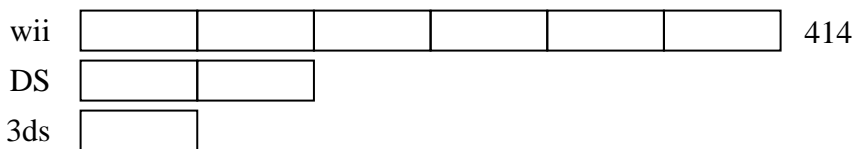
3) A chef was ordering vegetables for his restaurant. He order $380 worth of potatoes. He also spent $\frac{8}{10}$ as much on tomatoes. Finally he spent $\frac{1}{8}$ as much on green beans as he did on tomatoes. How much did he spend on green beans?

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?
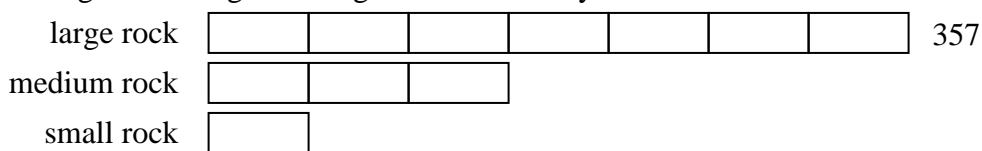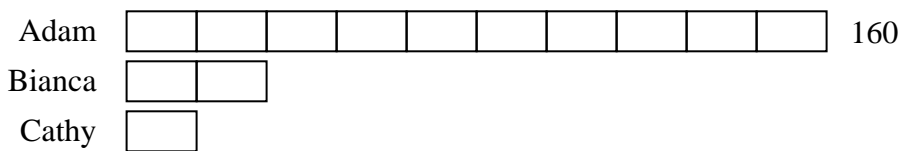
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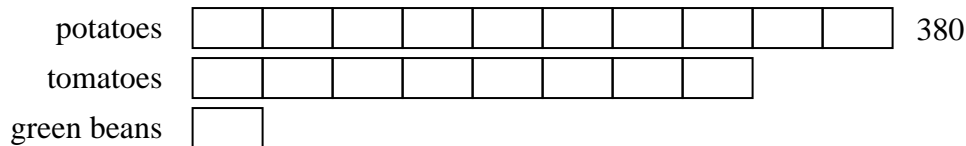
| wii | | | | | | | 414 |

| DS | | |

| 3ds | |

Ex. _____ **69**

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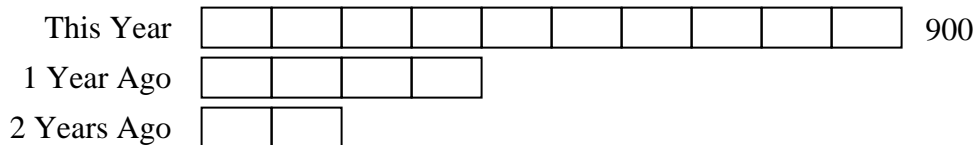
| large rock | | | | | | | 357 |

| medium rock | | | |

| small rock | |

1. _____ **51**

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 | |

2. _____ **16**

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 | |

3. _____ **38**

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 | | |

4. _____ **180**