Solve each problem using a tape diagram.

1) At the school fundraiser Adam earned $222. Bianca earned \( \frac{2}{6} \) as much as Adam. And Cathy earned \( \frac{1}{2} \) as much as Bianca. How much did Cathy earn?

2) On Super Bowl Sunday a store sold 150 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?

3) A chef was ordering vegetables for his restaurant. He order $540 worth of potatoes. He also spent \( \frac{4}{6} \) as much on tomatoes. Finally he spent \( \frac{3}{4} \) 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 \( \frac{3}{5} \) as many people as 1 year ago. 1 year ago the fair had \( \frac{5}{7} \) as many people as this year. This year the fair had 420 people. How many people did the fair have 2 years ago?

5) Nancy was trying to determine the weight of a small rock. She determined the small rock was \( \frac{4}{5} \) as heavy as a medium rock. The medium rock was \( \frac{5}{8} \) as heavy as a large rock. The large rock weighed 624 grams. How heavy was the small rock?
1) At the school fundraiser Adam earned $222. 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: $222
- Bianca: \(\frac{2}{6} \times 222\)
- Cathy: \(\frac{1}{2} \times \frac{2}{6} \times 222\)

2) On Super Bowl Sunday a store sold 150 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: 150
- Chips: \(\frac{2}{6} \times 150\)
- Dip: \(\frac{1}{2} \times \frac{2}{6} \times 150\)

3) A chef was ordering vegetables for his restaurant. He ordered $540 worth of potatoes. He also spent \(\frac{4}{6}\) as much on tomatoes. Finally he spent \(\frac{3}{4}\) as much on green beans as he did on tomatoes. How much did he spend on green beans?

- Potatoes: $540
- Tomatoes: \(\frac{4}{6} \times 540\)
- Green beans: \(\frac{3}{4} \times \frac{4}{6} \times 540\)

4) Two years ago the fair had \(\frac{3}{5}\) as many people as 1 year ago. 1 year ago the fair had \(\frac{5}{7}\) as many people as this year. This year the fair had 420 people. How many people did the fair have 2 years ago?

- This Year: 420
- 1 Year Ago: \(\frac{5}{7} \times 420\)
- 2 Years Ago: \(\frac{3}{5} \times \frac{5}{7} \times 420\)

5) Nancy was trying to determine the weight of a small rock. She determined the small rock was \(\frac{4}{5}\) as heavy as a medium rock. The medium rock was \(\frac{5}{8}\) as heavy as a large rock. The large rock weighed 624 grams. How heavy was the small rock?

- Large rock: 624 grams
- Medium rock: \(\frac{5}{8} \times 624\)
- Small rock: \(\frac{4}{5} \times \frac{5}{8} \times 624\)