Creating Wholes With Tape Diagram

Name: _____

Solve each problem using a tape diagram.

1) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $170. The middle school ended up earning 4 times as much as the high school and the elementary earned $10 fewer than the high school. How much money did the elementary school earn?

2) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 565 sodas. They sold 1/7 as many small sodas as they did large sodas. And they sold 20 fewer medium sodas as they did large sodas. How many small sodas did they sell?

3) Gwen spent 244 minutes working on her report. She spent 3 times as long researching the topic as she did writing the paper. She also spent 15 minutes less than the time she spent researching just preparing material. How much time did she spend writing?

4) Katie, her brother and her sister pooled their money to buy a console and some games. Together they had $234. Katie gave 1/2 as much as her sister and her brother gave $16 fewer than her sister. How much did her sister contribute?

5) Jerry earned $538 mowing lawns over the summer. In July he earned 9 times as much as he did in August. And in June he earned 13 dollars fewer than in July. How much money did he earn in July?

Name:

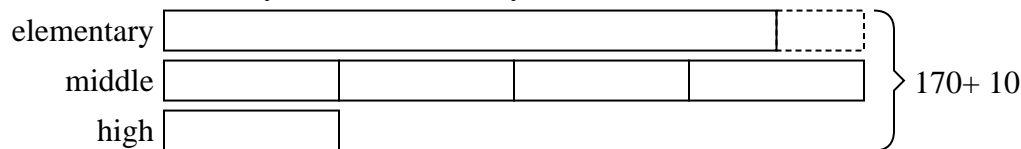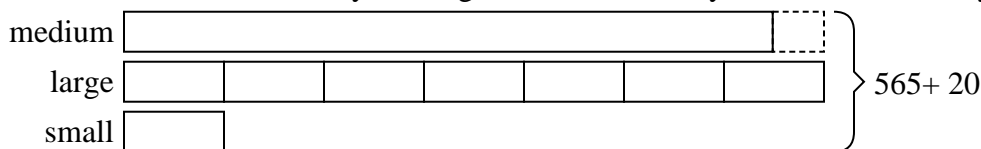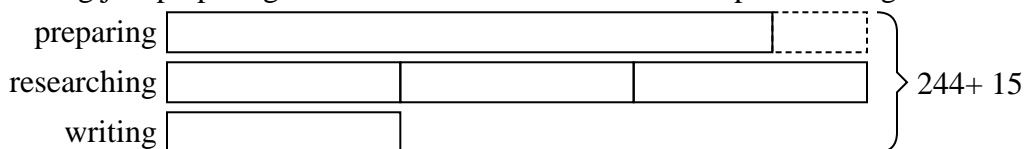**Solve each problem using a tape diagram.**

1) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $170. The middle school ended up earning 4 times as much as the high school and the elementary earned $10 fewer than the high school. How much money did the elementary school earn?

1. **70**

elementary

middle　　　170+ 10

high

2. **39**

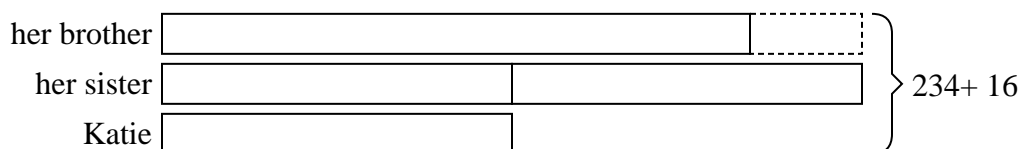**2)** A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 565 sodas. They sold 1/7 as many small sodas as they did large sodas. And they sold 20 fewer medium sodas as they did large sodas. How many small sodas did they sell?

3. **37**

medium

large　　565+ 20

small

4. **100**

3) Gwen spent 244 minutes working on her report. She spent 3 times as long researching the topic as she did writing the paper. She also spent 15 minutes less than the time she spent researching just preparing material. How much time did she spend writing?

5. **261**

preparing

researching　　244+ 15

writing

4) Katie, her brother and her sister pooled their money to buy a console and some games. Together they had $234. Katie gave 1/2 as much as her sister and her brother gave $16 fewer than her sister. How much did her sister contribute?

her brother

her sister　　234+ 16

Katie

5) Jerry earned $538 mowing lawns over the summer. In July he earned 9 times as much as he did in August. And in June he earned 13 dollars fewer than in July. How much money did he earn in July?

June

July　　538+ 13

August