Solve each problem using a tape diagram.

1) Amanda, Bianca and Cathy bake 373 muffins. Bianca bakes 5 times as many muffins as Cathy. Amanda bakes 12 fewer muffins than Bianca. How many muffins did Bianca bake?

1. _____

2. _____

3. _____

4. _____

2) Carol spent 232 minutes working on her report. She spent twice as long researching the topic as she did writing the paper. She also spent 13 minutes less than the time she spent researching just preparing material. How much time did she spend writing?

5. _____

3) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $223. The middle school ended up earning 3 times as much as the high school and the elementary earned $15 fewer than the high school. How much money did the high school earn?

4) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 537 sodas. They sold 1/9 as many small sodas as they did large sodas. And they sold 14 fewer medium sodas as they did large sodas. How many large sodas did they sell?

5) Faye sent 715 text messages over the summer. In July she sent 7 times as many as she did in August. And in June she sent 20 fewer than in July. How many texts did she send in June?

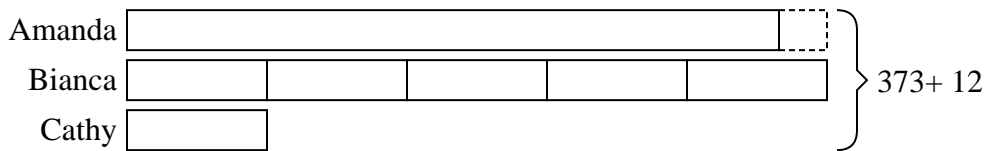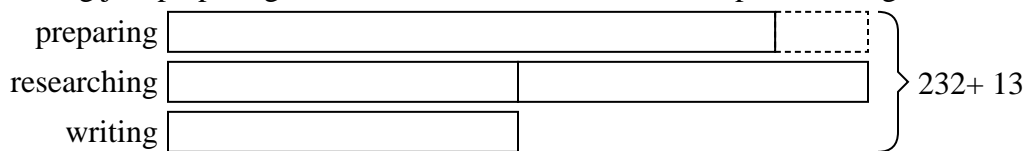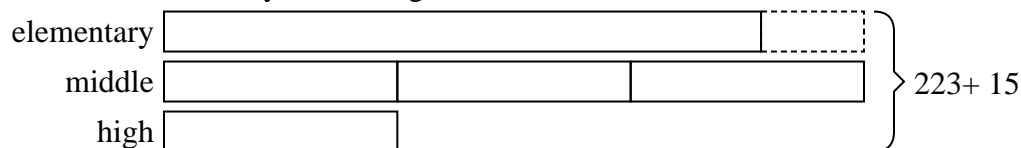**Solve each problem using a tape diagram.**

Answers

1) Amanda, Bianca and Cathy bake 373 muffins. Bianca bakes 5 times as many muffins as Cathy. Amanda bakes 12 fewer muffins than Bianca. How many muffins did Bianca bake?
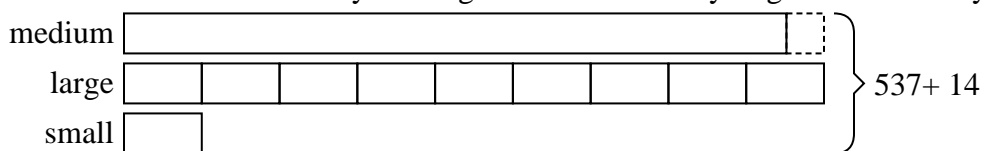
Amanda
Bianca } 373+ 12
Cathy

1. _____ **175**

2) Carol spent 232 minutes working on her report. She spent twice as long researching the topic as she did writing the paper. She also spent 13 minutes less than the time she spent researching just preparing material. How much time did she spend writing?

preparing
researching } 232+ 13
writing

2. _____ **49**

3. _____ **34**

3) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $223. The middle school ended up earning 3 times as much as the high school and the elementary earned $15 fewer than the high school. How much money did the high school earn?

elementary
middle } 223+ 15
high

4. _____ **261**

5. _____ **323**

4) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 537 sodas. They sold 1/9 as many small sodas as they did large sodas. And they sold 14 fewer medium sodas as they did large sodas. How many large sodas did they sell?

medium
large } 537+ 14
small

5) Faye sent 715 text messages over the summer. In July she sent 7 times as many as she did in August. And in June she sent 20 fewer than in July. How many texts did she send in June?

June
July } 715+ 20
August

1-5 | 80 | 60 | 40 | 20 | 0