Name:

Solve each problem using a tape diagram.

1) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 284 sodas. They sold 1/3 as many small sodas as they did large sodas. And they sold 17 fewer medium sodas as they did large sodas. How many large sodas did they sell?

1. _____

2. _____

3. _____

4. _____

2) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $249. The middle school ended up earning 5 times as much as the high school and the elementary earned $15 fewer than the high school. How much money did the elementary school earn?

5. _____

3) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 3 times as many as he had given to adults. To kids he gave out 3 fewer than he gave to teens. How many balloons did he give to kids, if he gave out 320 balloons all together?

4) Amanda, Bianca and Cathy bake 754 muffins. Bianca bakes 8 times as many muffins as Cathy. Amanda bakes 11 fewer muffins than Bianca. How many muffins did Bianca bake?
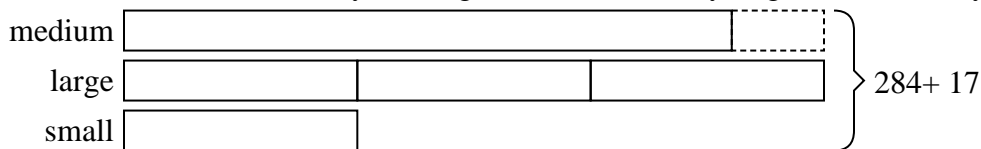
5) Faye spent 747 minutes working on her report. She spent 9 times as long researching the topic as she did writing the paper. She also spent 13 minutes less than the time she spent researching just preparing material. How much time did she spend preparing?
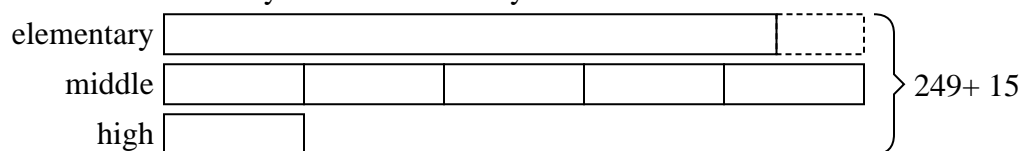
Math

Solve each problem using a tape diagram.

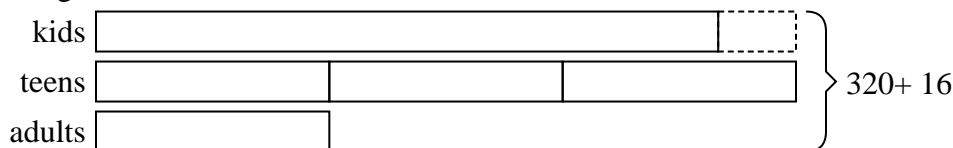**1)** A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 284 sodas. They sold 1/3 as many small sodas as they did large sodas. And they sold 17 fewer medium sodas as they did large sodas. How many large sodas did they sell?

medium [   ] ⌐ ¬
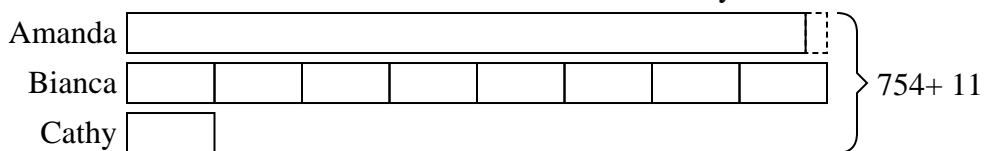large [| |] } 284+ 17
small [   ]

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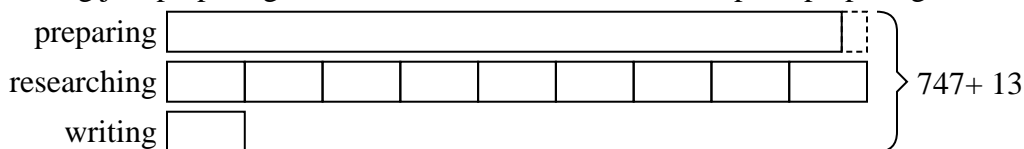
elementary [   ] ⌐ ¬
middle   [| | | |]   } 249+ 15
high   [   ]

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kids [   ] ⌐ ¬
teens [| |] } 320+ 16
adults [   ]

4) Amanda, Bianca and Cathy bake 754 muffins. Bianca bakes 8 times as many muffins as Cathy. Amanda bakes 11 fewer muffins than Bianca. How many muffins did Bianca bake?

Amanda [   ] ⌐ ¬
Bianca [| | | | | | |]   } 754+ 11
Cathy [   ]

5) Faye spent 747 minutes working on her report. She spent 9 times 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 preparing?

preparing [   ] ⌐ ¬
researching [| | | | | | | |] } 747+ 13
writing   [   ]

1.	**129**
2.	**105**
3.	**128**
4.	**360**
5.	**347**