

Solve each problem using a tape diagram.

Answers

- 1) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 9 times as many as he had given to adults. To kids he gave out 9 fewer than he gave to teens. How many balloons did he give to teens, if he gave out 611 balloons all together?
- 2) Amanda, Bianca and Cathy bake 618 muffins. Bianca bakes 6 times as many muffins as Cathy. Amanda bakes 19 fewer muffins than Bianca. How many muffins did Cathy bake?
- 3) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 312 sodas. They sold $\frac{1}{3}$ as many small sodas as they did large sodas. And they sold 10 fewer medium sodas as they did large sodas. How many medium sodas did they sell?
- 4) Billy earned \$543 mowing lawns over the summer. In July he earned 6 times as much as he did in August. And in June he earned 16 dollars fewer than in July. How much money did he earn in July?
- 5) Carol spent 733 minutes working on her report. She spent 8 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 preparing?

1. _____

2. _____

3. _____

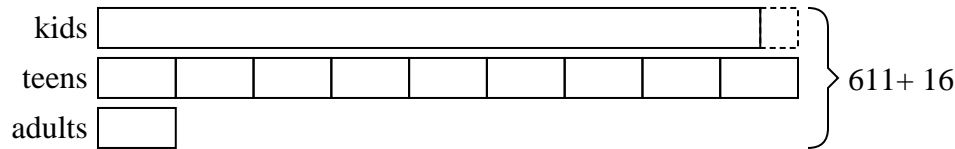
4. _____

5. _____

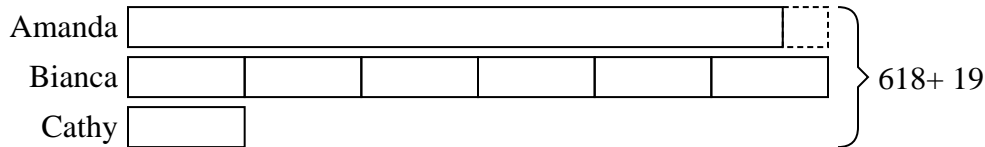


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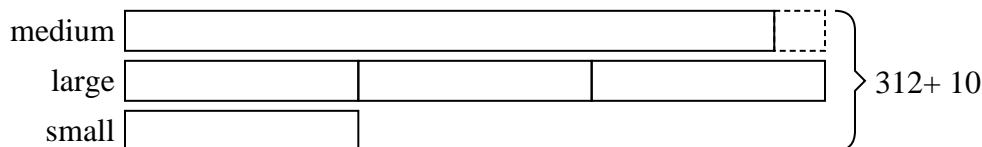
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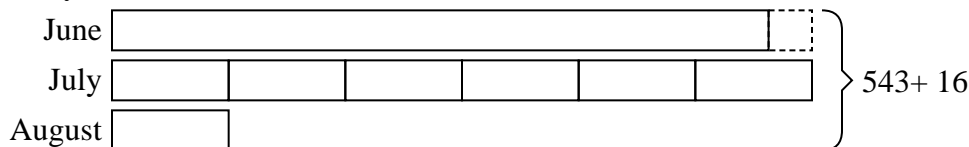
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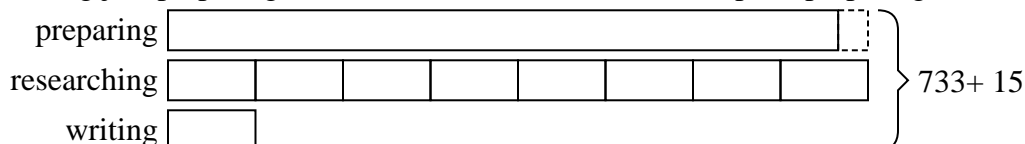
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**Answers**

1. **297**
2. **49**
3. **128**
4. **258**
5. **337**