



Solve each problem using a tape diagram.

Answers

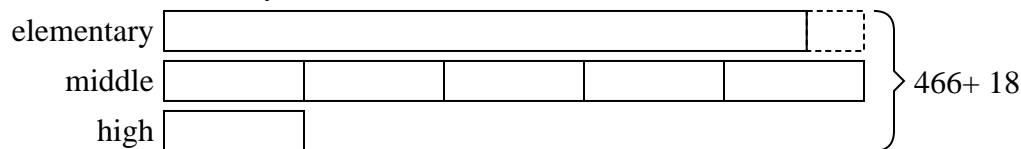
- 1) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned \$466. The middle school ended up earning 5 times as much as the high school and the elementary earned \$18 fewer than the high school. How much money did the middle school earn?
  
- 2) 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 adults, if he gave out 315 balloons all together?
  
- 3) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 864 sodas. They sold  $\frac{1}{9}$  as many small sodas as they did large sodas. And they sold 10 fewer medium sodas as they did large sodas. How many large sodas did they sell?
  
- 4) Paige sent 220 text messages over the summer. In July she sent twice as many as she did in August. And in June she sent 10 fewer than in July. How many texts did she send in June?
  
- 5) Vanessa spent 256 minutes working on her report. She spent 4 times as long researching the topic as she did writing the paper. She also spent 14 minutes less than the time she spent researching just preparing material. How much time did she spend researching?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

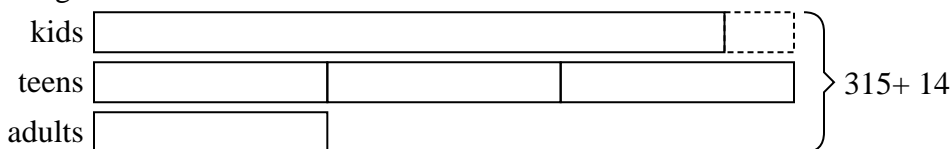


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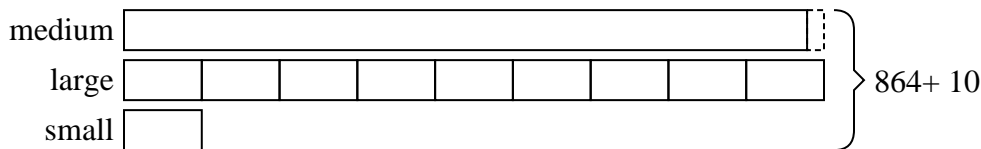
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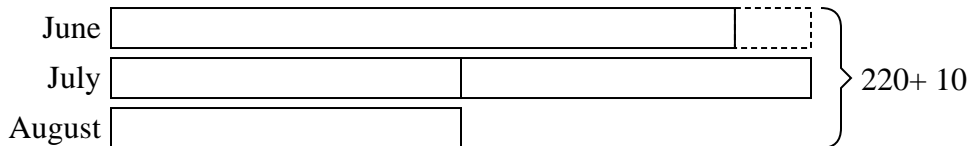
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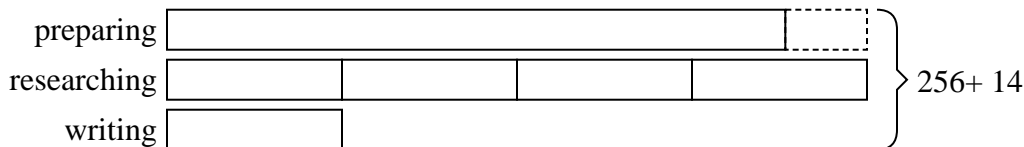
- 3) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 864 sodas. They sold 1/9 as many small sodas as they did large sodas. And they sold 10 fewer medium sodas as they did large sodas. How many large sodas did they sell?



- 4) Paige sent 220 text messages over the summer. In July she sent twice as many as she did in August. And in June she sent 10 fewer than in July. How many texts did she send in June?



- 5) Vanessa spent 256 minutes working on her report. She spent 4 times as long researching the topic as she did writing the paper. She also spent 14 minutes less than the time she spent researching just preparing material. How much time did she spend researching?



Answers

- 1. **220**
- 2. **47**
- 3. **414**
- 4. **82**
- 5. **120**