



Solve each problem using a tape diagram.

Answers

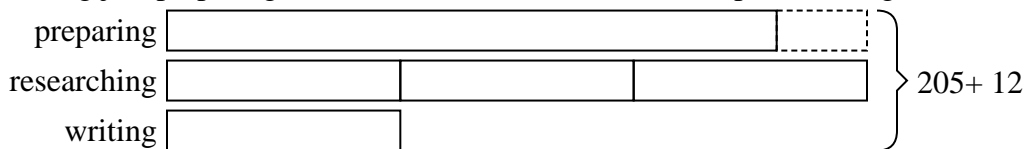
- 1) Debby spent 205 minutes working on her report. She spent 3 times as long researching the topic as she did writing the paper. She also spent 12 minutes less than the time she spent researching just preparing material. How much time did she spend writing?
  
  
  
  
  
  
  
  
  
  
- 2) Katie, her brother and her sister pooled their money to buy a console and some games. Together they had \$386. Katie gave  $\frac{1}{7}$  as much as her sister and her brother gave \$19 fewer than her sister. How much did her sister contribute?
  
  
  
  
  
  
  
  
  
  
- 3) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 7 times as many as he had given to adults. To kids he gave out 7 fewer than he gave to teens. How many balloons did he give to kids, if he gave out 464 balloons all together?
  
  
  
  
  
  
  
  
  
  
- 4) Emily sent 270 text messages over the summer. In July she sent 5 times as many as she did in August. And in June she sent 16 fewer than in July. How many texts did she send in August?
  
  
  
  
  
  
  
  
  
  
- 5) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 545 sodas. They sold  $\frac{1}{8}$  as many small sodas as they did large sodas. And they sold 16 fewer medium sodas as they did large sodas. How many small sodas did they sell?

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

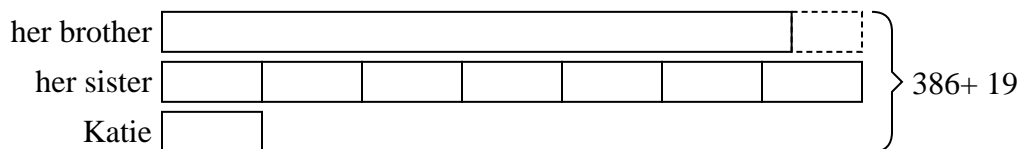


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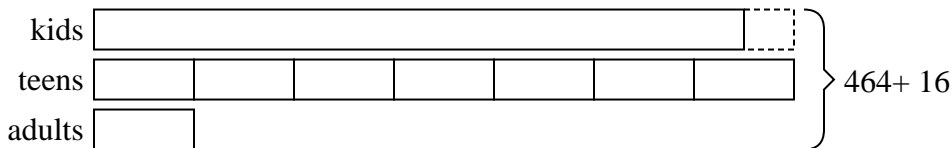
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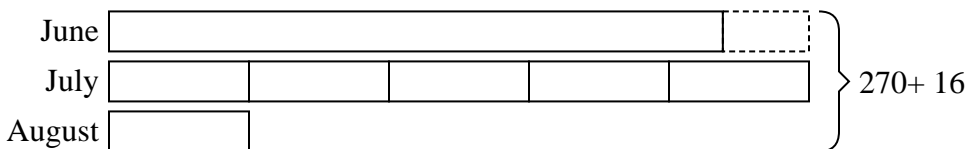
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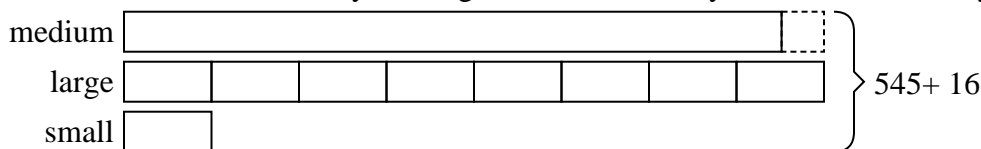
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Answers

1. 31

2. 189

3. 208

4. 26

5. 33