



Solve each problem using a tape diagram.

**Answers**

- 1) Sarah, her brother and her sister pooled their money to buy a console and some games. Together they had \$630. Sarah gave  $\frac{1}{6}$  as much as her sister and her brother gave \$20 fewer than her sister. How much did Sarah contribute?
  
  
  
  
  
  
  
  
  
  
- 2) Amanda, Bianca and Cathy bake 260 muffins. Bianca bakes 3 times as many muffins as Cathy. Amanda bakes 20 fewer muffins than Bianca. How many muffins did Amanda bake?
  
  
  
  
  
  
  
  
  
  
- 3) Mike earned \$270 mowing lawns over the summer. In July he earned 5 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 June?
  
  
  
  
  
  
  
  
  
  
- 4) Emily sent 254 text messages over the summer. In July she sent 6 times as many as she did in August. And in June she sent 19 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 704 sodas. They sold  $\frac{1}{8}$  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?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

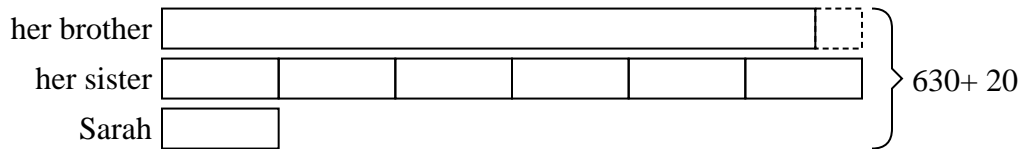
5. \_\_\_\_\_



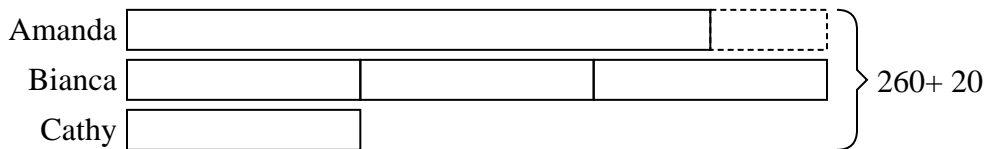
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**Answers**

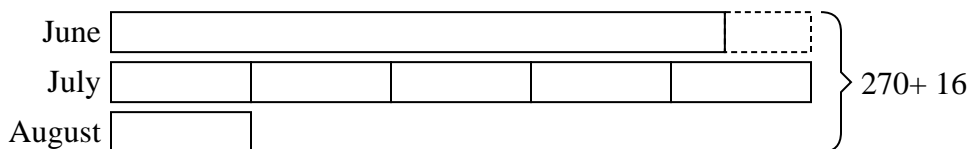
- 1) Sarah, her brother and her sister pooled their money to buy a console and some games. Together they had \$630. Sarah gave  $\frac{1}{6}$  as much as her sister and her brother gave \$20 fewer than her sister. How much did Sarah contribute?

1. **50**2. **100**3. **114**4. **21**

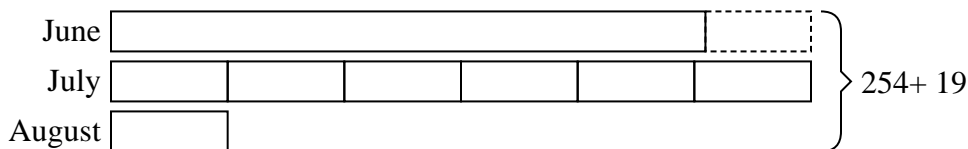
- 2) Amanda, Bianca and Cathy bake 260 muffins. Bianca bakes 3 times as many muffins as Cathy. Amanda bakes 20 fewer muffins than Bianca. How many muffins did Amanda bake?

5. **326**

- 3) Mike earned \$270 mowing lawns over the summer. In July he earned 5 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 June?



- 4) Emily sent 254 text messages over the summer. In July she sent 6 times as many as she did in August. And in June she sent 19 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 704 sodas. They sold  $\frac{1}{8}$  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?

