

**Solve each problem using a tape diagram.**

1) Katie sent 560 text messages over the summer. In July she sent 8 times as many as she did in August. And in June she sent 18 fewer than in July. How many texts did she send in July?

2) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 477 sodas. They sold  $\frac{1}{7}$  as many small sodas as they did large sodas. And they sold 18 fewer medium sodas as they did large sodas. How many small sodas did they sell?

3) The cafeteria offered three types of milk: regular, chocolate and strawberry. On Friday they gave out 670 cartons. They gave out 7 times as many chocolate as regular and they gave out 20 fewer strawberry than chocolate. How many cartons of strawberry milk did they give out?

4) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned \$550. The middle school ended up earning 9 times as much as the high school and the elementary earned \$20 fewer than the high school. How much money did the middle school earn?

5) Isabel spent 267 minutes working on her report. She spent 4 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?

**Answers**

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

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

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

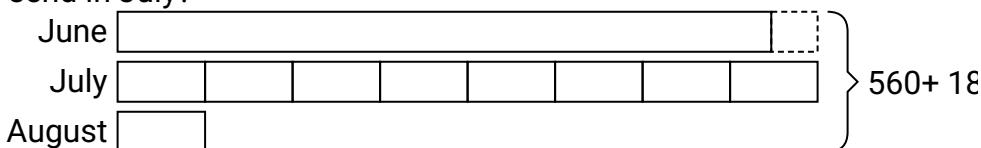
4. \_\_\_\_\_

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

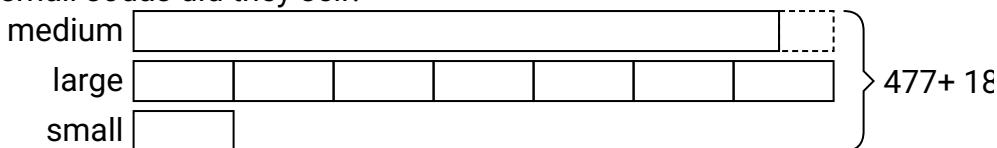


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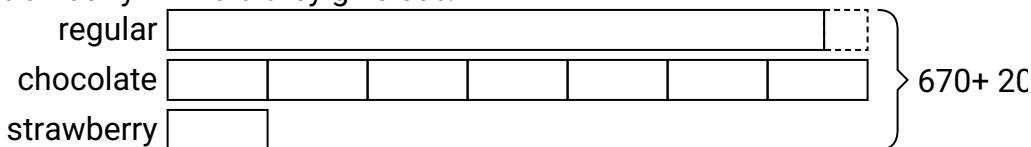
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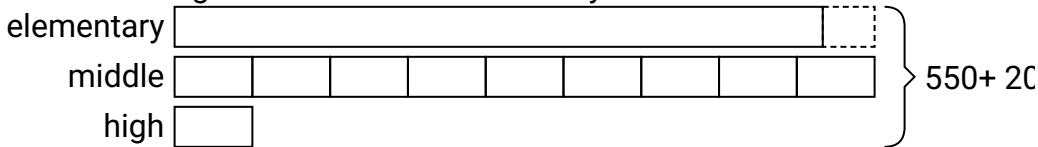
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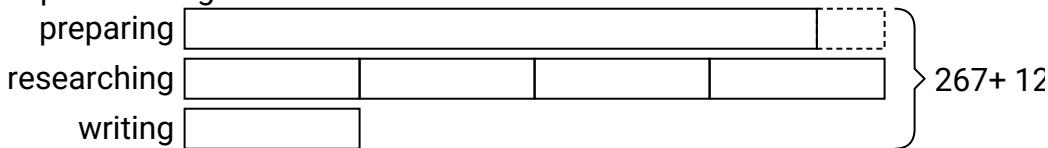
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**Answers**1. **272**2. **33**3. **46**4. **270**5. **31**