Creating Wholes With Tape Diagram

Solve each problem using a tape diagram.

1) Rachel sent 426 text messages over the summer. In July she sent 6 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 June?

1. _____

2. _____

3. _____

4. _____

2) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $217. The middle school ended up earning twice as much as the high school and the elementary earned $18 fewer than the high school. How much money did the high school earn?

5. _____

3) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 4 times as many as he had given to adults. To kids he gave out 4 fewer than he gave to teens. How many balloons did he give to teens, if he gave out 265 balloons all together?

4) Amanda, Bianca and Cathy bake 328 muffins. Bianca bakes 7 times as many muffins as Cathy. Amanda bakes 17 fewer muffins than Bianca. How many muffins did Cathy bake?

5) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 630 sodas. They sold 1/7 as many small sodas as they did large sodas. And they sold 15 fewer medium sodas as they did large sodas. How many large sodas did they sell?
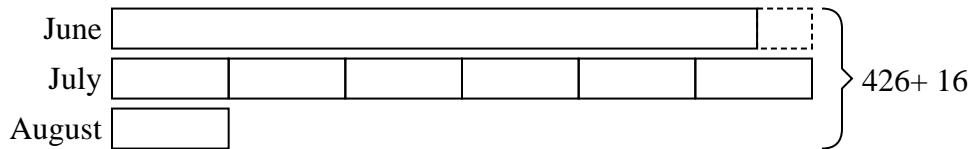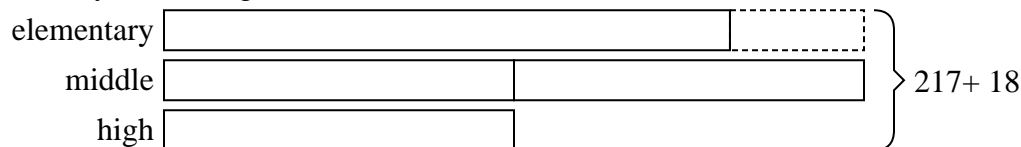
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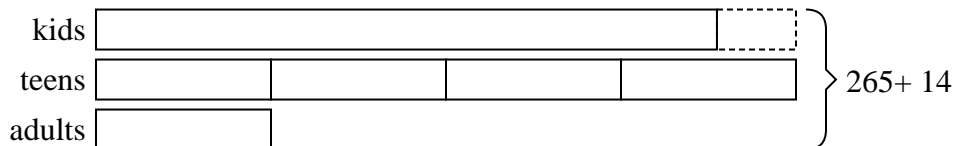
Solve each problem using a tape diagram.

Answers

1) Rachel sent 426 text messages over the summer. In July she sent 6 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 June?

1. **188**

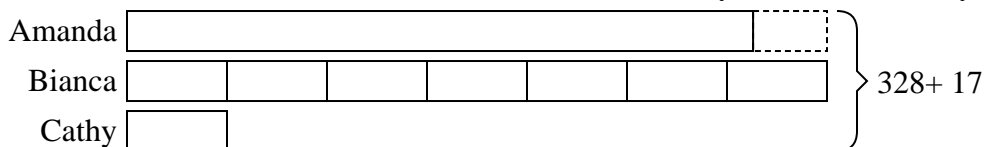| June							

June ⎤
July ⎥ 426+ 16
August ⎦

2) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $217. The middle school ended up earning twice as much as the high school and the elementary earned $18 fewer than the high school. How much money did the high school earn?

2. **47**

elementary ⎤
middle ⎥ 217+ 18
high ⎦

3) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 4 times as many as he had given to adults. To kids he gave out 4 fewer than he gave to teens. How many balloons did he give to teens, if he gave out 265 balloons all together?

3. **124**

kids ⎤
teens ⎥ 265+ 14
adults ⎦

4) Amanda, Bianca and Cathy bake 328 muffins. Bianca bakes 7 times as many muffins as Cathy. Amanda bakes 17 fewer muffins than Bianca. How many muffins did Cathy bake?

4. **23**

Amanda ⎤
Bianca ⎥ 328+ 17
Cathy ⎦

5) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 630 sodas. They sold 1/7 as many small sodas as they did large sodas. And they sold 15 fewer medium sodas as they did large sodas. How many large sodas did they sell?

5. **301**

medium ⎤
large ⎥ 630+ 15
small ⎦

1-5 | 80 | 60 | 40 | 20 | 0