## Creating Wholes With Tape Diagram

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

1)  Paige sent 255 text messages over the summer. In July she sent 3 times as many as she did in August. And in June she sent 11 fewer than in July. How many texts did she send in August?

1. _____

2. _____

3. _____

4. _____

2)  Over the holiday weekend a game store sold 552 games. On Saturday they sold 7 times as many games as on Sunday. And on Friday they sold 18 fewer games than on Saturday. How many games did they sell on Friday?

5. _____

3)  Tiffany spent 289 minutes working on her report. She spent 5 times as long researching the topic as she did writing the paper. She also spent 19 minutes less than the time she spent researching just preparing material. How much time did she spend preparing?

4)  At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 5 times as many as he had given to adults. To kids he gave out 5 fewer than he gave to teens. How many balloons did he give to adults, if he gave out 202 balloons all together?

5)  Amanda, Bianca and Cathy bake 480 muffins. Bianca bakes 5 times as many muffins as Cathy. Amanda bakes 15 fewer muffins than Bianca. How many muffins did Bianca bake?
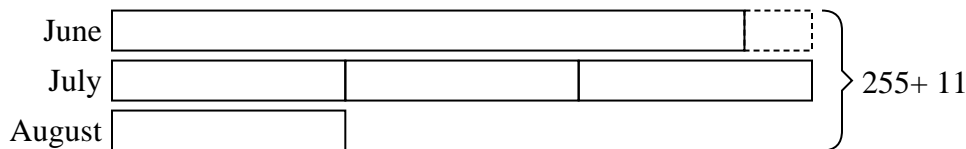
**Answer Key**

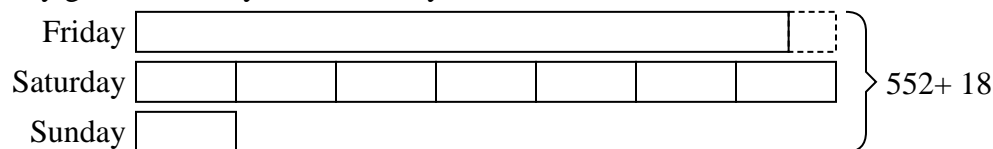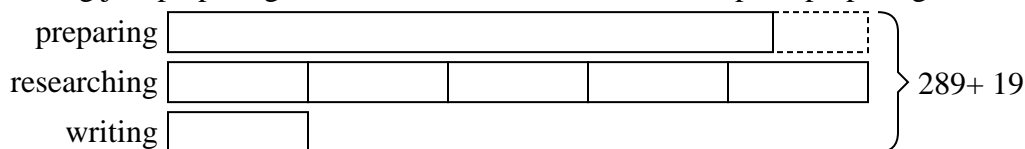**Solve each problem using a tape diagram.**

**1)** Paige sent 255 text messages over the summer. In July she sent 3 times as many as she did in August. And in June she sent 11 fewer than in July. How many texts did she send in August?

June
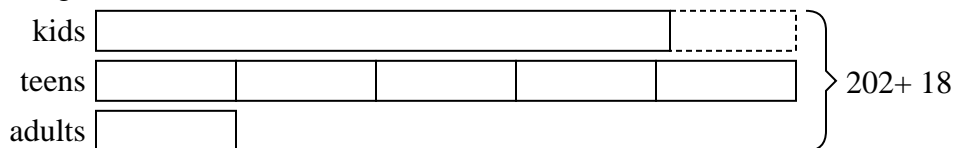July          $\}$ 255+ 11
August

1. _____ **38**

**2)** Over the holiday weekend a game store sold 552 games. On Saturday they sold 7 times as many games as on Sunday. And on Friday they sold 18 fewer games than on Saturday. How many games did they sell on Friday?

Friday
Saturday        $\}$ 552+ 18
Sunday

2. _____ **248**

3. _____ **121**

4. _____ **20**

**3)** Tiffany spent 289 minutes working on her report. She spent 5 times as long researching the topic as she did writing the paper. She also spent 19 minutes less than the time she spent researching just preparing material. How much time did she spend preparing?

preparing
researching        $\}$ 289+ 19
writing

5. _____ **225**

**4)** At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 5 times as many as he had given to adults. To kids he gave out 5 fewer than he gave to teens. How many balloons did he give to adults, if he gave out 202 balloons all together?

kids
teens        $\}$ 202+ 18
adults

**5)** Amanda, Bianca and Cathy bake 480 muffins. Bianca bakes 5 times as many muffins as Cathy. Amanda bakes 15 fewer muffins than Bianca. How many muffins did Bianca bake?

Amanda
Bianca        $\}$ 480+ 15
Cathy

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