Creating Wholes With Tape Diagram

Name:

Solve each problem using a tape diagram.

1) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 225 sodas. They sold 1/3 as many small sodas as they did large sodas. And they sold 13 fewer medium sodas as they did large sodas. How many small sodas did they sell?

2) Robin spent 507 minutes working on her report. She spent 8 times as long researching the topic as she did writing the paper. She also spent 20 minutes less than the time she spent researching just preparing material. How much time did she spend preparing?

3) Over the holiday weekend a game store sold 619 games. On Saturday they sold 8 times as many games as on Sunday. And on Friday they sold 10 fewer games than on Saturday. How many games did they sell on Sunday?

4) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $405. The middle school ended up earning 8 times as much as the high school and the elementary earned $20 fewer than the high school. How much money did the elementary school earn?

5) Tiffany sent 379 text messages over the summer. In July she sent 8 times as many as she did in August. And in June she sent 12 fewer than in July. How many texts did she send in August?

Answers

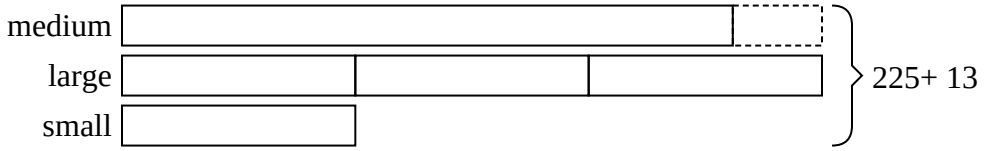
1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Creating Wholes With Tape Diagram Name: **Answer Key**

Solve each problem using a tape diagram.

1) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 225 sodas. They sold 1/3 as many small sodas as they did large sodas. And they sold 13 fewer medium sodas as they did large sodas. How many small sodas did they sell?



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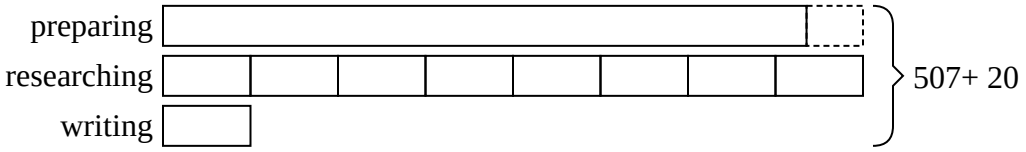

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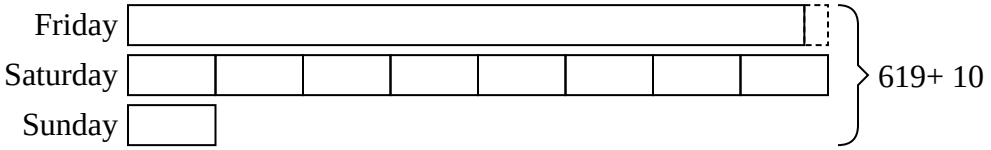

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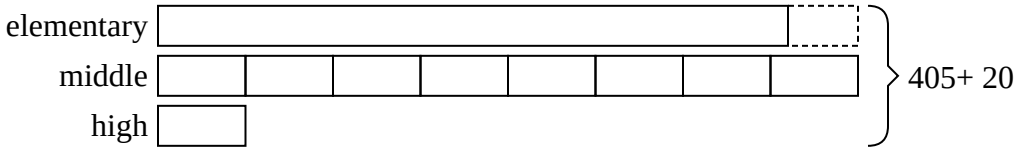
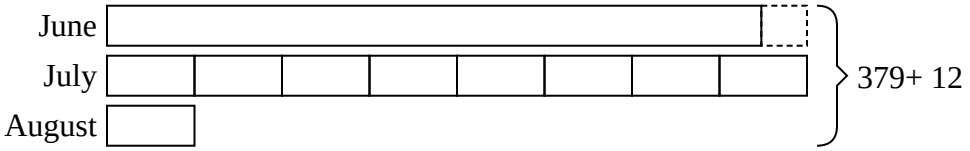


5) Tiffany sent 379 text messages over the summer. In July she sent 8 times as many as she did in August. And in June she sent 12 fewer than in July. How many texts did she send in August?



Answers

1. **34**
2. **228**
3. **37**
4. **180**
5. **23**

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) Haley spent 283 minutes working on her report. She spent 5 times as long researching the topic as she did writing the paper. She also spent 14 minutes less than the time she spent researching just preparing material. How much time did she spend preparing?

2) Carol, her brother and her sister pooled their money to buy a console and some games. Together they had $266. Carol gave 1/3 as much as her sister and her brother gave $14 fewer than her sister. How much did her brother 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 3 times as many as he had given to adults. To kids he gave out 3 fewer than he gave to teens. How many balloons did he give to kids, if he gave out 203 balloons all together?

4) The cafeteria offered three types of milk: regular, chocolate and strawberry. On Friday they gave out 233 cartons. They gave out twice as many chocolate as regular and they gave out 12 fewer strawberry than chocolate. How many cartons of chocolate milk did they give out?

5) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 348 sodas. They sold 1/6 as many small sodas as they did large sodas. And they sold 16 fewer medium sodas as they did large sodas. How many medium sodas did they sell?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Creating Wholes With Tape Diagram Name: **Answer Key**

Solve each problem using a tape diagram.

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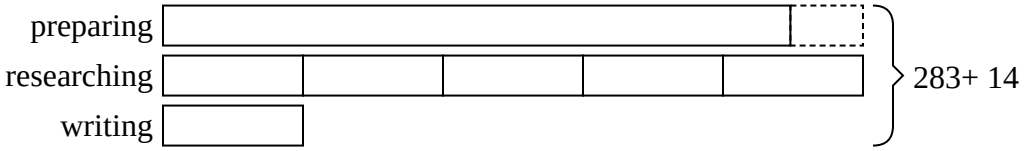

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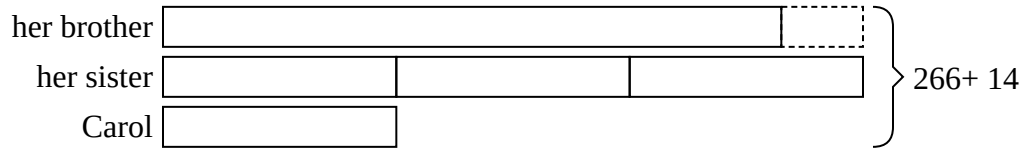

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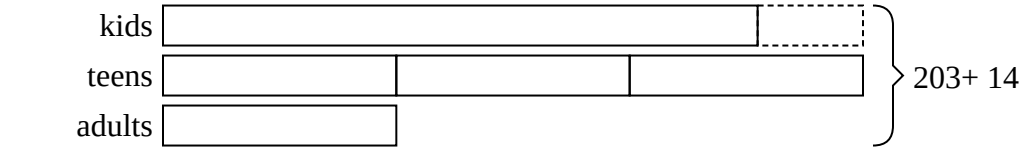
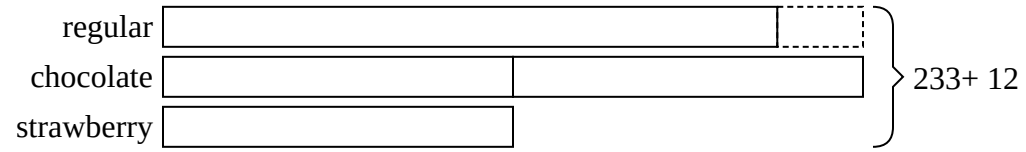
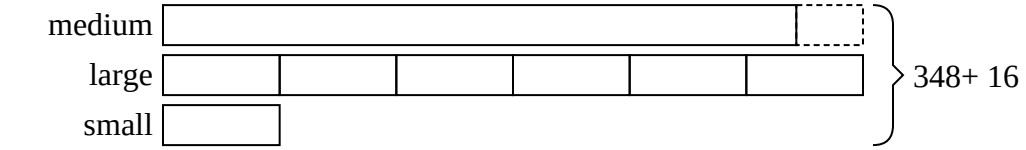


4) The cafeteria offered three types of milk: regular, chocolate and strawberry. On Friday they gave out 233 cartons. They gave out twice as many chocolate as regular and they gave out 12 fewer strawberry than chocolate. How many cartons of chocolate milk did they give out?



5) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 348 sodas. They sold 1/6 as many small sodas as they did large sodas. And they sold 16 fewer medium sodas as they did large sodas. How many medium sodas did they sell?



Answers

1. **121**
2. **106**
3. **79**
4. **98**
5. **152**

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) John earned $126 mowing lawns over the summer. In July he earned twice as much as he did in August. And in June he earned 14 dollars fewer than in July. How much money did he earn in August?

2) Olivia sent 257 text messages over the summer. In July she sent 3 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 July?

3) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 8 times as many as he had given to adults. To kids he gave out 8 fewer than he gave to teens. How many balloons did he give to teens, if he gave out 680 balloons all together?

4) The cafeteria offered three types of milk: regular, chocolate and strawberry. On Friday they gave out 280 cartons. They gave out 7 times as many chocolate as regular and they gave out 20 fewer strawberry than chocolate. How many cartons of regular milk did they give out?

5) Amanda, Bianca and Cathy bake 491 muffins. Bianca bakes 7 times as many muffins as Cathy. Amanda bakes 19 fewer muffins than Bianca. How many muffins did Bianca bake?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Creating Wholes With Tape Diagram Name: **Answer Key**

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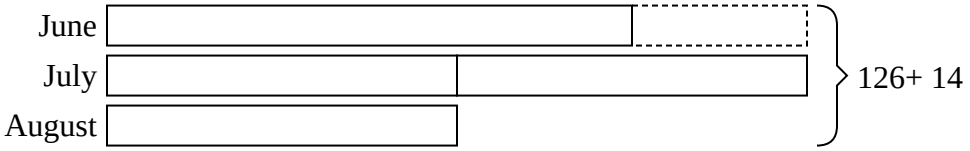

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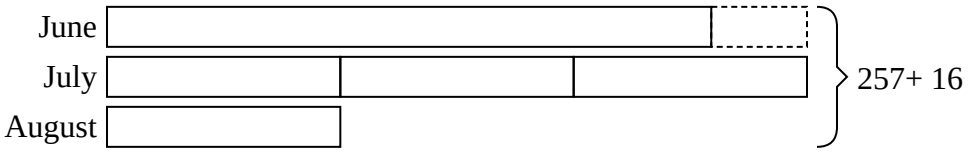

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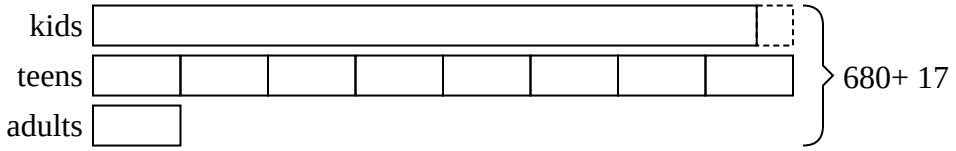

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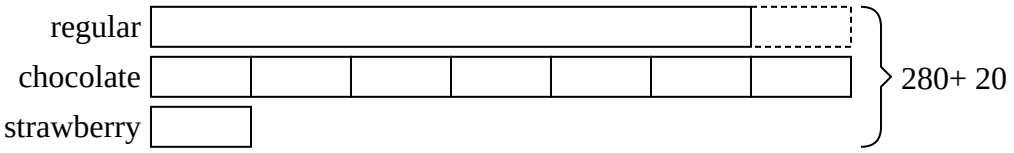

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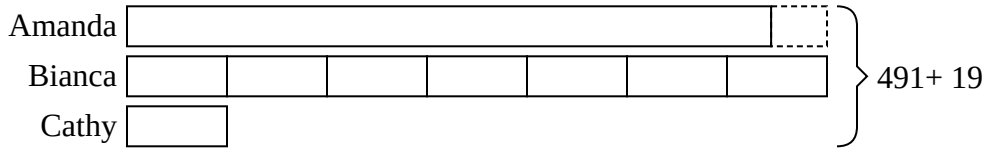

Answers

1. 28
2. 117
3. 328
4. 120
5. 238

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $267. The middle school ended up earning 3 times as much as the high school and the elementary earned $13 fewer than the high school. How much money did the elementary school earn?

2) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 81 sodas. They sold 1/2 as many small sodas as they did large sodas. And they sold 19 fewer medium sodas as they did large sodas. How many medium sodas did they sell?

3) Amanda, Bianca and Cathy bake 282 muffins. Bianca bakes 5 times as many muffins as Cathy. Amanda bakes 15 fewer muffins than Bianca. How many muffins did Amanda bake?

4) Debby spent 409 minutes working on her report. She spent 8 times as long researching the topic as she did writing the paper. She also spent 16 minutes less than the time she spent researching just preparing material. How much time did she spend preparing?

5) 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 teens, if he gave out 424 balloons all together?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Creating Wholes With Tape Diagram Name: **Answer Key**

Solve each problem using a tape diagram.

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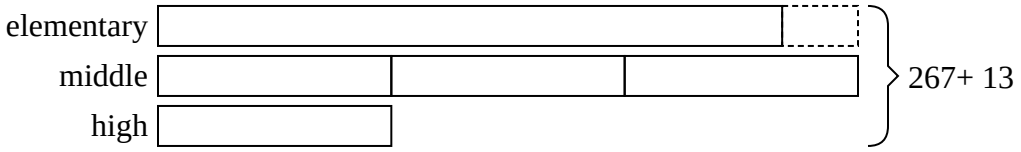

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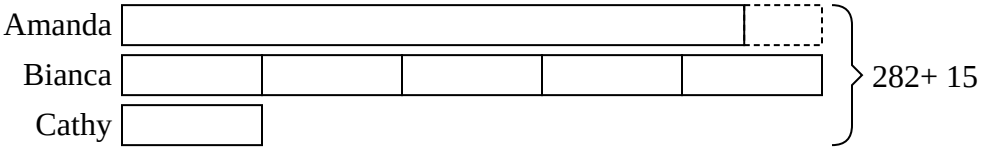

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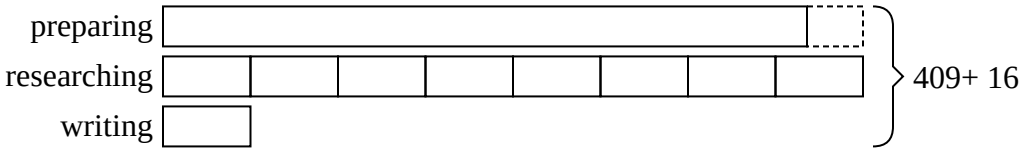

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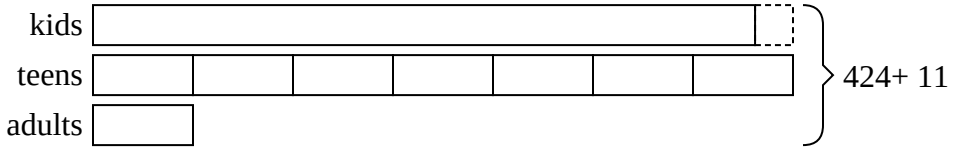

Answers

1. 107
2. 21
3. 120
4. 184
5. 203

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $466. The middle school ended up earning 5 times as much as the high school and the elementary earned $18 fewer than the high school. How much money did the middle school earn?

2) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 3 times as many as he had given to adults. To kids he gave out 3 fewer than he gave to teens. How many balloons did he give to adults, if he gave out 315 balloons all together?

3) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 864 sodas. They sold 1/9 as many small sodas as they did large sodas. And they sold 10 fewer medium sodas as they did large sodas. How many large sodas did they sell?

4) Paige sent 220 text messages over the summer. In July she sent twice as many as she did in August. And in June she sent 10 fewer than in July. How many texts did she send in June?

5) Vanessa spent 256 minutes working on her report. She spent 4 times as long researching the topic as she did writing the paper. She also spent 14 minutes less than the time she spent researching just preparing material. How much time did she spend researching?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Creating Wholes With Tape Diagram Name: **Answer Key**

Solve each problem using a tape diagram.

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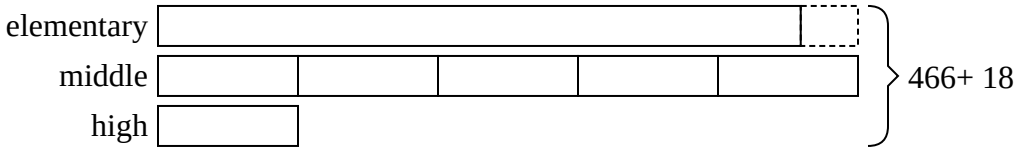

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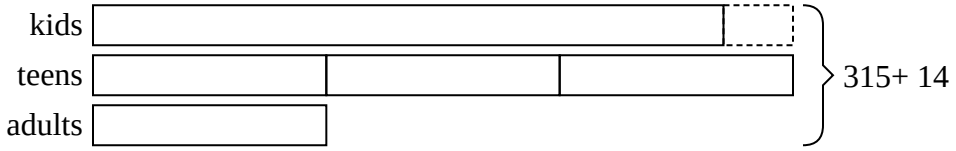

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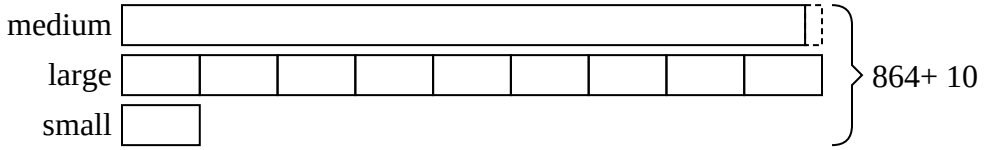

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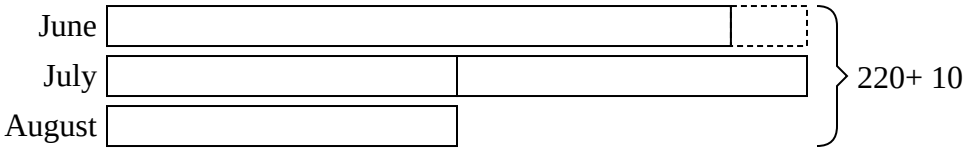
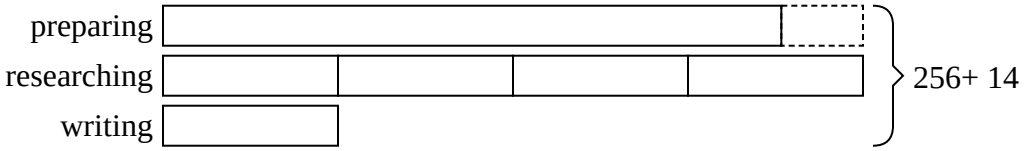


5) Vanessa spent 256 minutes working on her report. She spent 4 times as long researching the topic as she did writing the paper. She also spent 14 minutes less than the time she spent researching just preparing material. How much time did she spend researching?



Answers

1. 220
2. 47
3. 414
4. 82
5. 120

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) Amanda, Bianca and Cathy bake 170 muffins. Bianca bakes twice as many muffins as Cathy. Amanda bakes 10 fewer muffins than Bianca. How many muffins did Amanda bake?

2) Olivia sent 146 text messages over the summer. In July she sent twice 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?

3) The cafeteria offered three types of milk: regular, chocolate and strawberry. On Friday they gave out 510 cartons. They gave out 6 times as many chocolate as regular and they gave out 10 fewer strawberry than chocolate. How many cartons of regular milk did they give out?

4) Maria, her brother and her sister pooled their money to buy a console and some games. Together they had $650. Maria gave 1/9 as much as her sister and her brother gave $15 fewer than her sister. How much did her brother contribute?

5) Over the holiday weekend a game store sold 880 games. On Saturday they sold 9 times as many games as on Sunday. And on Friday they sold 13 fewer games than on Saturday. How many games did they sell on Friday?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Creating Wholes With Tape Diagram Name: **Answer Key**

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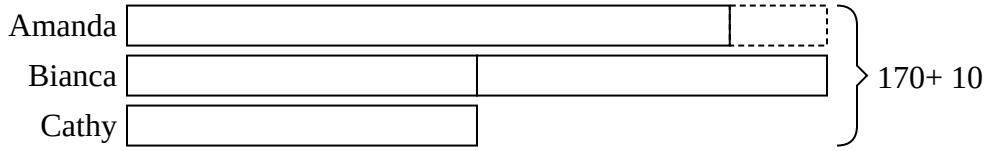

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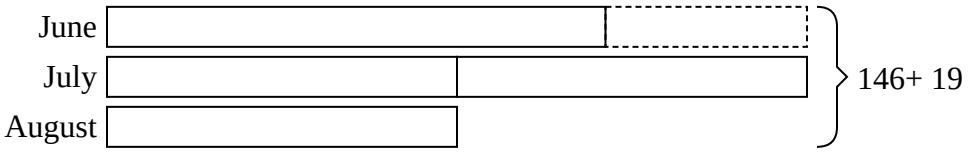

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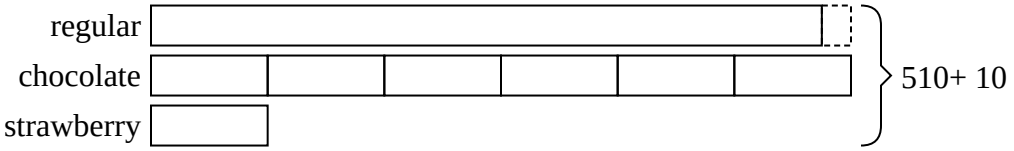
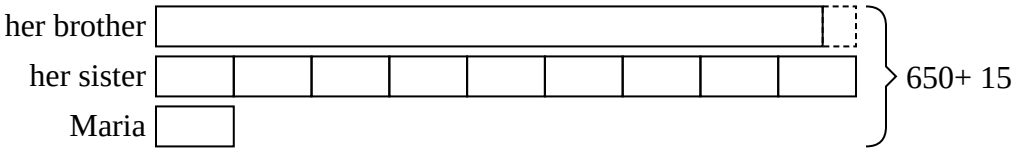
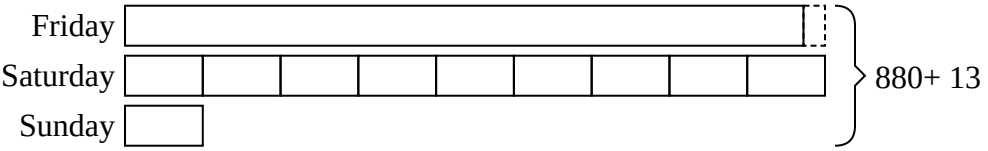


4) Maria, her brother and her sister pooled their money to buy a console and some games. Together they had $650. Maria gave 1/9 as much as her sister and her brother gave $15 fewer than her sister. How much did her brother contribute?



5) Over the holiday weekend a game store sold 880 games. On Saturday they sold 9 times as many games as on Sunday. And on Friday they sold 13 fewer games than on Saturday. How many games did they sell on Friday?



Answers

1. 62
2. 33
3. 230
4. 300
5. 410

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) Sarah, her brother and her sister pooled their money to buy a console and some games. Together they had $630. Sarah gave 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 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?

Answers

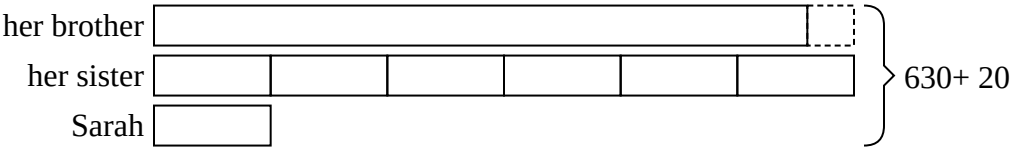
1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

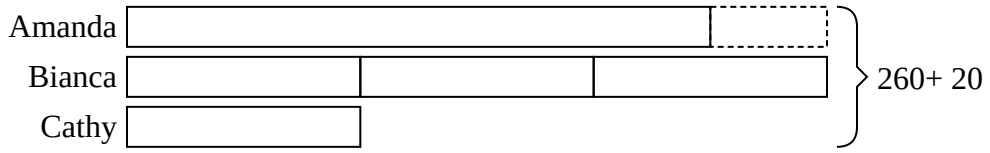
Creating Wholes With Tape Diagram Name: **Answer Key**

Solve each problem using a tape diagram.

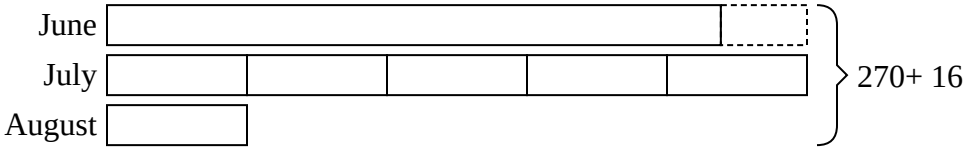
1) Sarah, her brother and her sister pooled their money to buy a console and some games. Together they had $630. Sarah gave 1/6 as much as her sister and her brother gave $20 fewer than her sister. How much did Sarah contribute?



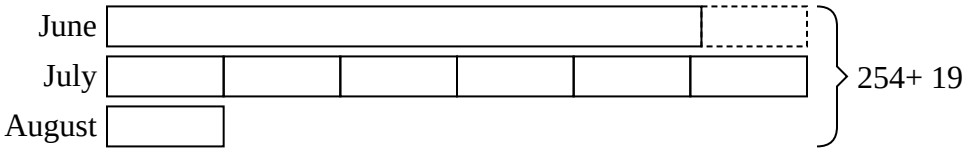
2) Amanda, Bianca and Cathy bake 260 muffins. Bianca bakes 3 times as many muffins as Cathy. Amanda bakes 20 fewer muffins than Bianca. How many muffins did Amanda bake?



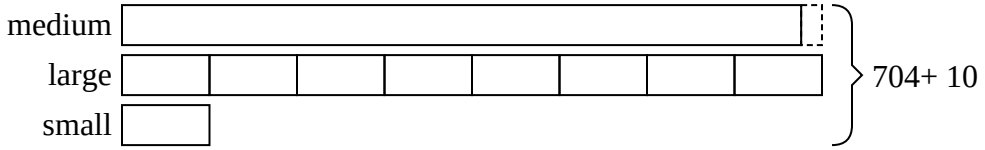
3) Mike earned $270 mowing lawns over the summer. In July he earned 5 times as much as he did in August. And in June he earned 16 dollars fewer than in July. How much money did he earn in June?



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 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?



Answers

1. 50
2. 100
3. 114
4. 21
5. 326

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) Amanda, Bianca and Cathy bake 130 muffins. Bianca bakes 3 times as many muffins as Cathy. Amanda bakes 17 fewer muffins than Bianca. How many muffins did Bianca bake?

2) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $425. The middle school ended up earning 5 times as much as the high school and the elementary earned $15 fewer than the high school. How much money did the high school earn?

3) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 374 sodas. They sold 1/6 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?

4) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 9 times as many as he had given to adults. To kids he gave out 9 fewer than he gave to teens. How many balloons did he give to adults, if he gave out 902 balloons all together?

5) Over the holiday weekend a game store sold 533 games. On Saturday they sold 6 times as many games as on Sunday. And on Friday they sold 13 fewer games than on Saturday. How many games did they sell on Sunday?

Answers

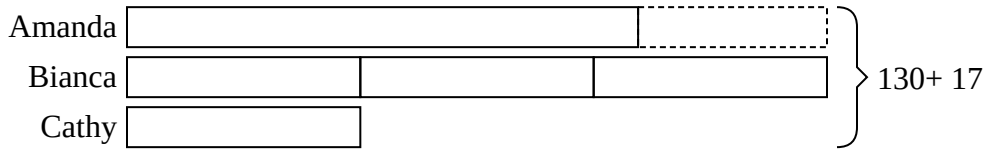
1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

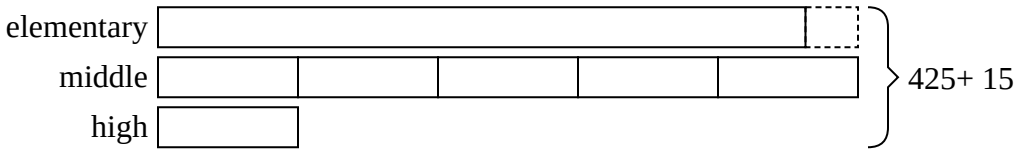
Creating Wholes With Tape Diagram Name: **Answer Key**

Solve each problem using a tape diagram.

1) Amanda, Bianca and Cathy bake 130 muffins. Bianca bakes 3 times as many muffins as Cathy. Amanda bakes 17 fewer muffins than Bianca. How many muffins did Bianca bake?



2) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $425. The middle school ended up earning 5 times as much as the high school and the elementary earned $15 fewer than the high school. How much money did the high school earn?



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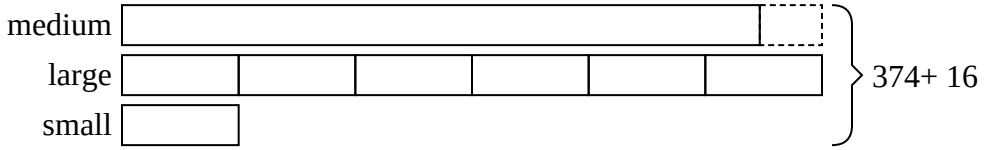

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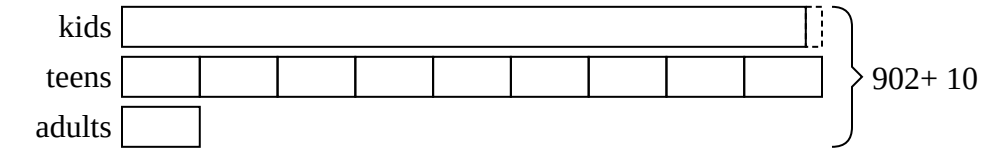
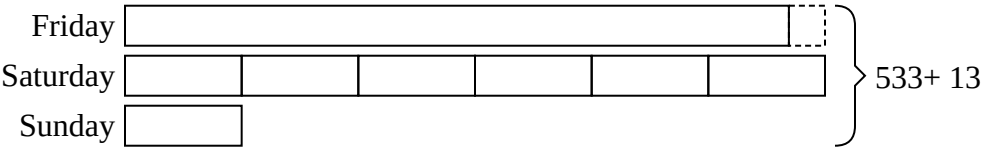


5) Over the holiday weekend a game store sold 533 games. On Saturday they sold 6 times as many games as on Sunday. And on Friday they sold 13 fewer games than on Saturday. How many games did they sell on Sunday?



Answers

1. 63
2. 40
3. 30
4. 48
5. 42

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 530 sodas. They sold 1/5 as many small sodas as they did large sodas. And they sold 20 fewer medium sodas as they did large sodas. How many medium sodas did they sell?

2) Luke earned $403 mowing lawns over the summer. In July he earned 6 times as much as he did in August. And in June he earned 13 dollars fewer than in July. How much money did he earn in July?

3) The elementary, middle and high schools were competing to see who could earn the most money fund raising. Together they earned $249. The middle school ended up earning 5 times as much as the high school and the elementary earned $15 fewer than the high school. How much money did the high school earn?

4) The cafeteria offered three types of milk: regular, chocolate and strawberry. On Friday they gave out 466 cartons. They gave out 5 times as many chocolate as regular and they gave out 18 fewer strawberry than chocolate. How many cartons of chocolate milk did they give out?

5) Over the holiday weekend a game store sold 360 games. On Saturday they sold 9 times as many games as on Sunday. And on Friday they sold 20 fewer games than on Saturday. How many games did they sell on Sunday?

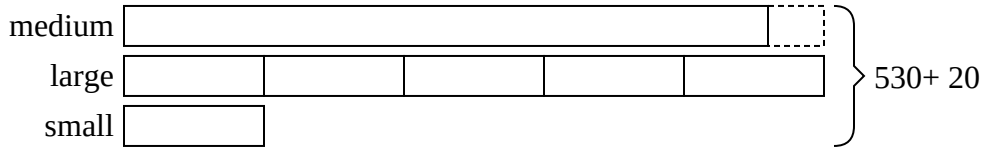
Answers

1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) A theater owner was looking at how many sodas they sold of different sizes in a day. Total they sold 530 sodas. They sold 1/5 as many small sodas as they did large sodas. And they sold 20 fewer medium sodas as they did large sodas. How many medium sodas did they sell?



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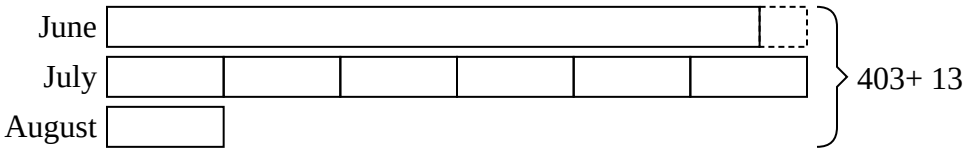

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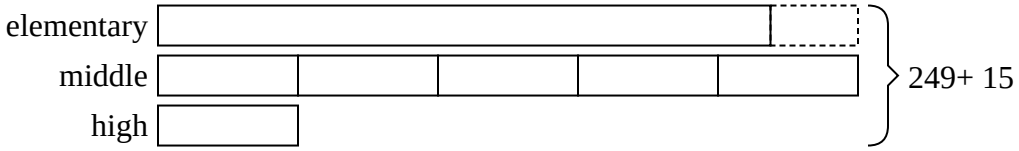

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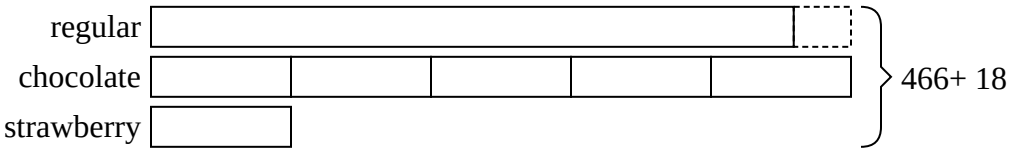
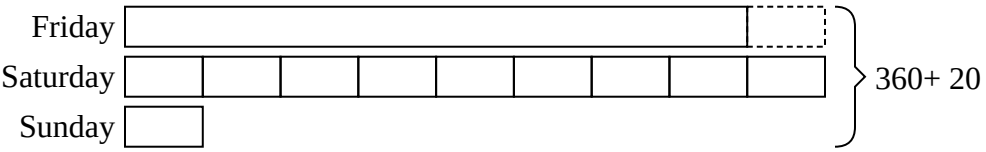


5) Over the holiday weekend a game store sold 360 games. On Saturday they sold 9 times as many games as on Sunday. And on Friday they sold 20 fewer games than on Saturday. How many games did they sell on Sunday?



Answers

1. **230**
2. **192**
3. **24**
4. **220**
5. **20**

1-5	80	60	40	20	0

Solve each problem using a tape diagram.

1) Faye sent 343 text messages over the summer. In July she sent 4 times as many as she did in August. And in June she sent 17 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 225 sodas. They sold 1/3 as many small sodas as they did large sodas. And they sold 20 fewer medium sodas as they did large sodas. How many medium sodas did they sell?

3) Victor earned $314 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 August?

4) At the fair a vendor counted the number of balloons he gave away to kids, teens and adults. To teens he handed out 8 times as many as he had given to adults. To kids he gave out 8 fewer than he gave to teens. How many balloons did he give to adults, if he gave out 798 balloons all together?

5) Emily spent 232 minutes working on her report. She spent 5 times as long researching the topic as she did writing the paper. She also spent 10 minutes less than the time she spent researching just preparing material. How much time did she spend writing?

Answers

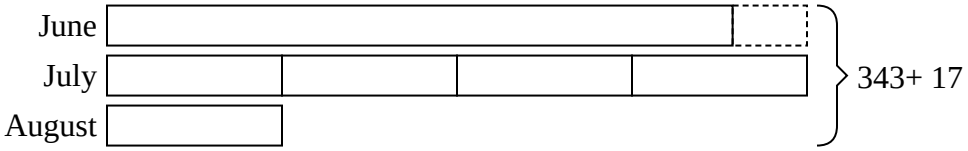
1. _____
2. _____
3. _____
4. _____
5. _____

1-5	80	60	40	20	0

Creating Wholes With Tape Diagram Name: **Answer Key**

Solve each problem using a tape diagram.

1) Faye sent 343 text messages over the summer. In July she sent 4 times as many as she did in August. And in June she sent 17 fewer than in July. How many texts did she send in July?



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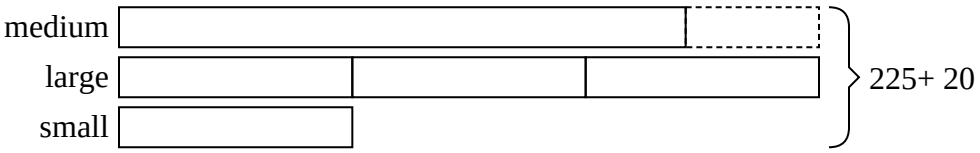

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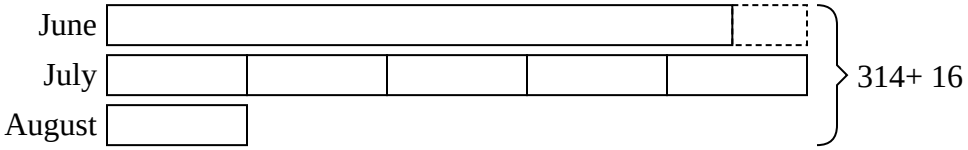

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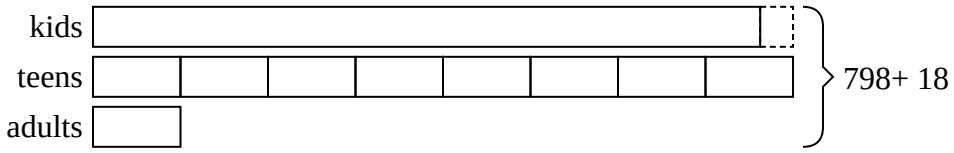

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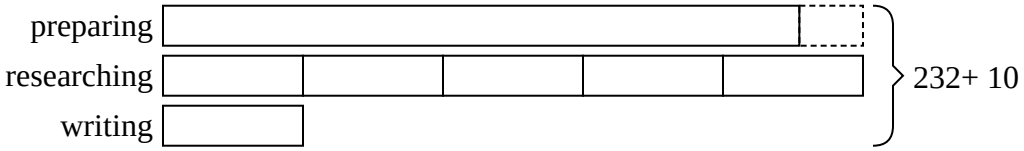

Answers

1. 160
2. 85
3. 30
4. 48
5. 22

1-5	80	60	40	20	0