Multiples and Differences With Tape Diagram

Name: _____

Solve each problem using a tape diagram.

1) Victor was reading a book. He read 18 pages on Monday and 2 times as many pages on Tuesday. On Wednesday he read 10 fewer pages than the amount he read on Tuesday. How many pages did he read total?

2) In April, Larry's Lawn Care mowed 30 lawns. They mowed 4 times as many in May and 6 fewer in June. How many lawns did they mow over those three months?

3) On Monday morning a store had 16 customer. In the afternoon they had 10 fewer customers than the morning. In the evening they had 3 times as many customers as the morning. How many customers did they have total?

4) Amy, Billy and Carl were working on a school project. Amy spent 26 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 6 minutes fewer than Billy did. How many minutes total were they working?

5) Emily was organizing her pictures on her computer. In folder 1 she had 10 pictures. In folder 2 she had 9 more pictures than folder 1. And in folder 3 she had 5 times as many pictures as folder 1. How many pictures does she have total?

1. _____

2. _____

3. _____

4. _____

5. _____

Solve each problem using a tape diagram.

Answers

1) Victor was reading a book. He read 18 pages on Monday and 2 times as many pages on Tuesday. On Wednesday he read 10 fewer pages than the amount he read on Tuesday. How many pages did he read total?

Monday	18
Tuesday	
Wednesday	

2) In April, Larry's Lawn Care mowed 30 lawns. They mowed 4 times as many in May and 6 fewer in June. How many lawns did they mow over those three months?

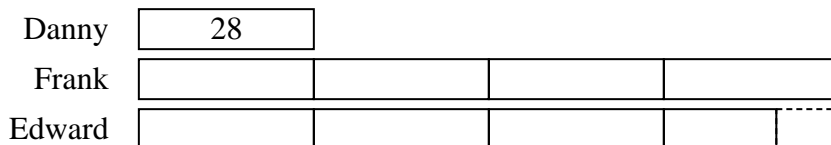| April | 30 |
| June | 6 |
| May | |

3) On Monday morning a store had 16 customer. In the afternoon they had 10 fewer customers than the morning. In the evening they had 3 times as many customers as the morning. How many customers did they have total?

Morning	16
Afternoon	10
Evening	

4) Amy, Billy and Carl were working on a school project. Amy spent 26 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 6 minutes fewer than Billy did. How many minutes total were they working?

Amy	26
Billy	
Carl	

5) Emily was organizing her pictures on her computer. In folder 1 she had 10 pictures. In folder 2 she had 9 more pictures than folder 1. And in folder 3 she had 5 times as many pictures as folder 1. How many pictures does she have total?

Folder 1	10
Folder 2	9
Folder 3	

1. **80**

2. **174**

3. **70**

4. **280**

5. **79**

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

Solve each problem using a tape diagram.

1) On Friday a game store sold 29 copies of the new Mario game. On Saturday they sold 4 times as many as on Friday. And then on Sunday they sold 8 less than the amount on Friday. How many did they sell total?

1. _____

2. _____

3. _____

4. _____

2) A musician spent 13 hours practicing in January. In February he practiced for 10 hours longer than he did in January. Then in March he practiced for 3 times as long as January. How hours did he spend practicing?

5. _____

3) On Monday morning a store had 28 customer. In the afternoon they had 8 fewer customers than the morning. In the evening they had 4 times as many customers as the morning. How many customers did they have total?

4) While playing a video game Aaron, Bianca and Cathy counted the enemies they defeated. Aaron defeated 17. Bianca defeated 7 more than Aaron. And Cathy defeated 5 times as many as Aaron. How many enemies did they defeat total?

5) Emily's TV emporium was running a contest to see which employee could sell the most TVs. Frank sold 4 times as many TVs as Danny. Edward sold 10 fewer than Frank. And Danny sold 28 TVs. How many TVs did they sell total?
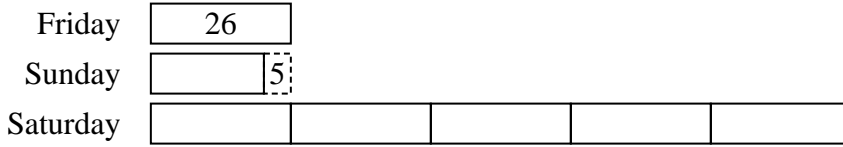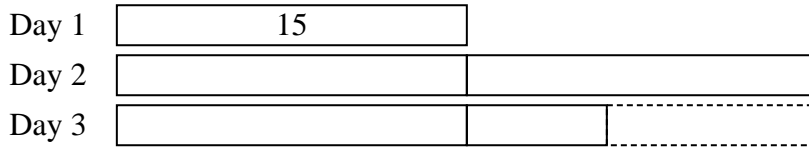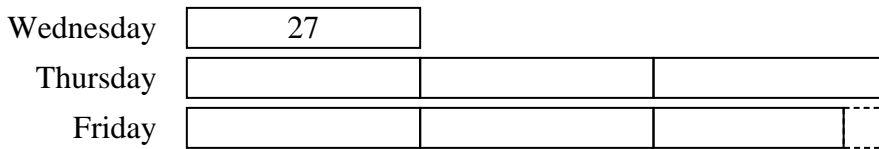
Solve each problem using a tape diagram.

1) On Friday a game store sold 29 copies of the new Mario game. On Saturday they sold 4 times as many as on Friday. And then on Sunday they sold 8 less than the amount on Friday. How many did they sell total?

Friday	29			
Sunday		8		
Saturday				

2) A musician spent 13 hours practicing in January. In February he practiced for 10 hours longer than he did in January. Then in March he practiced for 3 times as long as January. How hours did he spend practicing?

Jan.	13		
Feb.		10	
Mar.			

3) On Monday morning a store had 28 customer. In the afternoon they had 8 fewer customers than the morning. In the evening they had 4 times as many customers as the morning. How many customers did they have total?

Morning	28			
Afternoon		8		
Evening				

4) While playing a video game Aaron, Bianca and Cathy counted the enemies they defeated. Aaron defeated 17. Bianca defeated 7 more than Aaron. And Cathy defeated 5 times as many as Aaron. How many enemies did they defeat total?

Aaron	17				
Bianca		7			
Cathy					

5) Emily's TV emporium was running a contest to see which employee could sell the most TVs. Frank sold 4 times as many TVs as Danny. Edward sold 10 fewer than Frank. And Danny sold 28 TVs. How many TVs did they sell total?

Danny	28			
Frank				
Edward				

Answers

1. **166**
2. **75**
3. **160**
4. **126**
5. **242**

Multiples and Differences With Tape Diagram

Name:

Solve each problem using a tape diagram.

1) On Friday a game store sold 26 copies of the new Mario game. On Saturday they sold 5 times as many as on Friday. And then on Sunday they sold 5 less than the amount on Friday. How many did they sell total?

1. _____

2. _____

3. _____

4. _____

2) Janet created an app that she put on the app store. In the first day 15 people downloaded it. On the second day she had 2 times as many downloads. On the third day she had 9 fewer downloads than day 2. How many people downloaded the app in the first 3 days?

5. _____

3) The school book fair sold 27 books on Wednesday. On Friday they sold 5 fewer than Thursday. On Thursday they sold 3 times as many as on Wednesday. How many books did they sell in those three days?

4) In a school district the elementary school earned $27 fundraising. The high school earned 4 times as much as the elementary school and the middle school earned $5 less than the elementary. How much did they earn total?

5) Emily was organizing her pictures on her computer. In folder 1 she had 13 pictures. In folder 2 she had 5 more pictures than folder 1. And in folder 3 she had 4 times as many pictures as folder 1. How many pictures does she have total?

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

Multiples and Differences With Tape Diagram

Name:

Solve each problem using a tape diagram.

1) On Friday a game store sold 26 copies of the new Mario game. On Saturday they sold 5 times as many as on Friday. And then on Sunday they sold 5 less than the amount on Friday. How many did they sell total?

Friday [26]

Sunday [|5|]

Saturday [| | | |]

2) Janet created an app that she put on the app store. In the first day 15 people downloaded it. On the second day she had 2 times as many downloads. On the third day she had 9 fewer downloads than day 2. How many people downloaded the app in the first 3 days?

Day 1 [15   ]

Day 2 [|]

Day 3 [| |-----]

3) The school book fair sold 27 books on Wednesday. On Friday they sold 5 fewer than Thursday. On Thursday they sold 3 times as many as on Wednesday. How many books did they sell in those three days?

Wednesday [27   ]

Thursday [| |]

Friday [| | |---]

4) In a school district the elementary school earned $27 fundraising. The high school earned 4 times as much as the elementary school and the middle school earned $5 less than the elementary. How much did they earn total?

Elementary [27   ]

Middle [|5|]

High [| | |]

5) Emily was organizing her pictures on her computer. In folder 1 she had 13 pictures. In folder 2 she had 5 more pictures than folder 1. And in folder 3 she had 4 times as many pictures as folder 1. How many pictures does she have total?

Folder 1 [13   ]

Folder 2 [| 5]

Folder 3 [| | |]

Solve each problem using a tape diagram.

1) Victor was reading a book. He read 10 pages on Monday and 2 times as many pages on Tuesday. On Wednesday he read 7 fewer pages than the amount he read on Tuesday. How many pages did he read total?

1. _____

2. _____

3. _____

4. _____

2) A musician spent 14 hours practicing in January. In February he practiced for 5 hours longer than he did in January. Then in March he practiced for 3 times as long as January. How hours did he spend practicing?

5. _____

3) On Monday morning a store had 13 customer. In the afternoon they had 8 fewer customers than the morning. In the evening they had 4 times as many customers as the morning. How many customers did they have total?

4) Amy, Billy and Carl were working on a school project. Amy spent 13 minutes on her portion. Billy spent 3 times as long on his portion. And Carl spent 5 minutes fewer than Billy did. How many minutes total were they working?

5) At the fair the ring toss booth took in $26 the first hour. The second hour they took $10 less than the first hour. And the third hour they took 2 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

Name:

Solve each problem using a tape diagram.

1) Victor was reading a book. He read 10 pages on Monday and 2 times as many pages on Tuesday. On Wednesday he read 7 fewer pages than the amount he read on Tuesday. How many pages did he read total?

Monday	10
Tuesday	
Wednesday	

1. **43**

2) A musician spent 14 hours practicing in January. In February he practiced for 5 hours longer than he did in January. Then in March he practiced for 3 times as long as January. How hours did he spend practicing?

Jan.	14
Feb.	5
Mar.	

2. **75**

3. **70**

4. **86**

3) On Monday morning a store had 13 customer. In the afternoon they had 8 fewer customers than the morning. In the evening they had 4 times as many customers as the morning. How many customers did they have total?

Morning	13
Afternoon	8
Evening	

5. **94**

4) Amy, Billy and Carl were working on a school project. Amy spent 13 minutes on her portion. Billy spent 3 times as long on his portion. And Carl spent 5 minutes fewer than Billy did. How many minutes total were they working?

Amy	13
Billy	
Carl	

5) At the fair the ring toss booth took in $26 the first hour. The second hour they took $10 less than the first hour. And the third hour they took 2 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

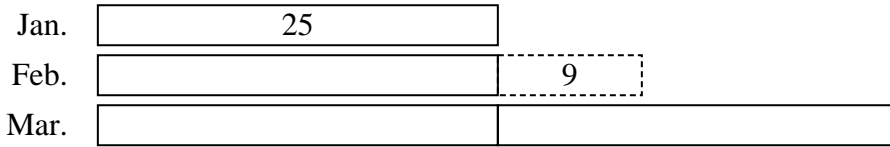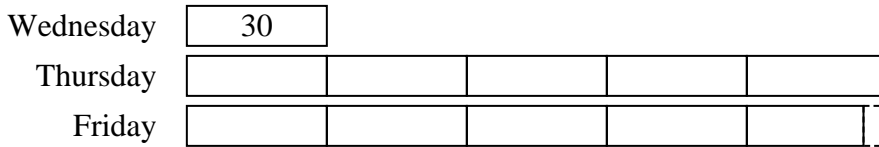| First Hour | 26 |
| Second Hour | 10 |
| Third Hour | |

Solve each problem using a tape diagram.

1) Faye uploaded a video to youtube that was 22 minutes long. The next week she uploaded a video that was 8 minutes longer. Then the following week she uploaded a video that was 5 times as long as the first week. How many minutes did she upload total?
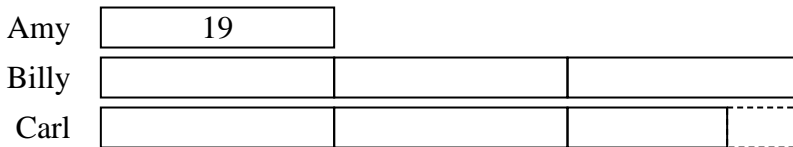
1. _____

2. _____

3. _____

4. _____

2) A musician spent 10 hours practicing in January. In February he practiced for 9 hours longer than he did in January. Then in March he practiced for 5 times as long as January. How hours did he spend practicing?
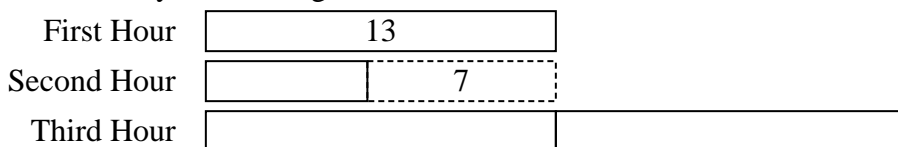
5. _____

3) On Monday morning a store had 28 customer. In the afternoon they had 10 fewer customers than the morning. In the evening they had 5 times as many customers as the morning. How many customers did they have total?

4) Amy, Billy and Carl were working on a school project. Amy spent 17 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 7 minutes fewer than Billy did. How many minutes total were they working?

5) At the fair the ring toss booth took in $26 the first hour. The second hour they took $9 less than the first hour. And the third hour they took 5 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

Solve each problem using a tape diagram.

Answers

1) Faye uploaded a video to youtube that was 22 minutes long. The next week she uploaded a video that was 8 minutes longer. Then the following week she uploaded a video that was 5 times as long as the first week. How many minutes did she upload total?

Week 1	22				
Week 2		8			
Week 3					

2) A musician spent 10 hours practicing in January. In February he practiced for 9 hours longer than he did in January. Then in March he practiced for 5 times as long as January. How hours did he spend practicing?

Jan.	10				
Feb.		9			
Mar.					

3) On Monday morning a store had 28 customer. In the afternoon they had 10 fewer customers than the morning. In the evening they had 5 times as many customers as the morning. How many customers did they have total?

Morning	28				
Afternoon		10			
Evening					

4) Amy, Billy and Carl were working on a school project. Amy spent 17 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 7 minutes fewer than Billy did. How many minutes total were they working?

Amy	17				
Billy					
Carl					

5) At the fair the ring toss booth took in $26 the first hour. The second hour they took $9 less than the first hour. And the third hour they took 5 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

First Hour	26				
Second Hour		9			
Third Hour					

Answers

1. **162**

2. **79**
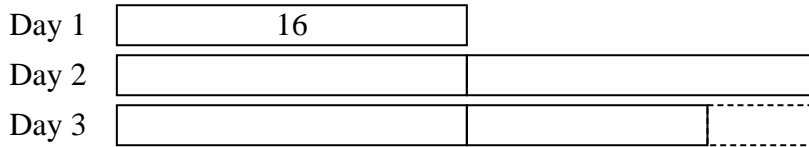
3. **186**

4. **180**

5. **173**

Solve each problem using a tape diagram.

1) Faye uploaded a video to youtube that was 22 minutes long. The next week she uploaded a video that was 9 minutes longer. Then the following week she uploaded a video that was 2 times as long as the first week. How many minutes did she upload total?

1. _____

2. _____

3. _____

4. _____

2) A musician spent 25 hours practicing in January. In February he practiced for 9 hours longer than he did in January. Then in March he practiced for 2 times as long as January. How hours did he spend practicing?

5. _____

3) The school book fair sold 30 books on Wednesday. On Friday they sold 5 fewer than Thursday. On Thursday they sold 5 times as many as on Wednesday. How many books did they sell in those three days?

4) Amy, Billy and Carl were working on a school project. Amy spent 19 minutes on her portion. Billy spent 3 times as long on his portion. And Carl spent 6 minutes fewer than Billy did. How many minutes total were they working?

5) At the fair the ring toss booth took in $13 the first hour. The second hour they took $7 less than the first hour. And the third hour they took 2 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

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

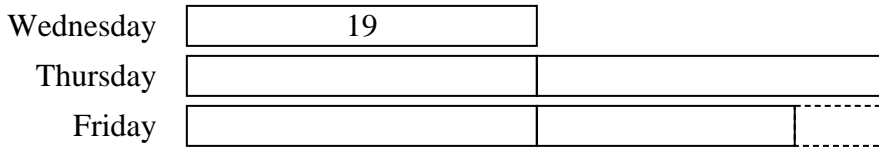**Solve each problem using a tape diagram.**

1) Faye uploaded a video to youtube that was 22 minutes long. The next week she uploaded a video that was 9 minutes longer. Then the following week she uploaded a video that was 2 times as long as the first week. How many minutes did she upload total?

Week 1	22	
Week 2		9
Week 3		

2) A musician spent 25 hours practicing in January. In February he practiced for 9 hours longer than he did in January. Then in March he practiced for 2 times as long as January. How hours did he spend practicing?

Jan.	25	
Feb.		9
Mar.		

3) The school book fair sold 30 books on Wednesday. On Friday they sold 5 fewer than Thursday. On Thursday they sold 5 times as many as on Wednesday. How many books did they sell in those three days?

Wednesday	30				
Thursday					
Friday					

4) Amy, Billy and Carl were working on a school project. Amy spent 19 minutes on her portion. Billy spent 3 times as long on his portion. And Carl spent 6 minutes fewer than Billy did. How many minutes total were they working?

Amy	19		
Billy			
Carl			

5) At the fair the ring toss booth took in $13 the first hour. The second hour they took $7 less than the first hour. And the third hour they took 2 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

First Hour	13	
Second Hour		7
Third Hour		

1.		**97**
2.		**109**
3.		**325**
4.		**127**
5.		**45**

Solve each problem using a tape diagram.

1) Faye uploaded a video to youtube that was 30 minutes long. The next week she uploaded a video that was 9 minutes longer. Then the following week she uploaded a video that was 4 times as long as the first week. How many minutes did she upload total?

2) Janet created an app that she put on the app store. In the first day 16 people downloaded it. On the second day she had 2 times as many downloads. On the third day she had 5 fewer downloads than day 2. How many people downloaded the app in the first 3 days?

3) The school book fair sold 19 books on Wednesday. On Friday they sold 5 fewer than Thursday. On Thursday they sold 2 times as many as on Wednesday. How many books did they sell in those three days?

4) In a school district the elementary school earned $18 fundraising. The high school earned 4 times as much as the elementary school and the middle school earned $7 less than the elementary. How much did they earn total?

5) Emily was organizing her pictures on her computer. In folder 1 she had 29 pictures. In folder 2 she had 5 more pictures than folder 1. And in folder 3 she had 4 times as many pictures as folder 1. How many pictures does she have total?
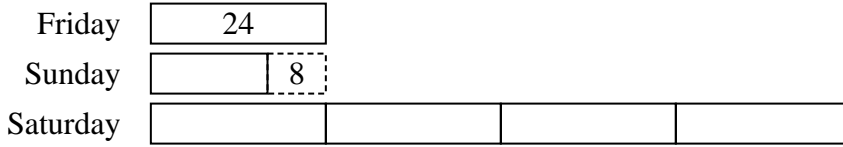
Solve each problem using a tape diagram.

1) Faye uploaded a video to youtube that was 30 minutes long. The next week she uploaded a video that was 9 minutes longer. Then the following week she uploaded a video that was 4 times as long as the first week. How many minutes did she upload total?

Week 1	30			
Week 2		9		
Week 3				

2) Janet created an app that she put on the app store. In the first day 16 people downloaded it. On the second day she had 2 times as many downloads. On the third day she had 5 fewer downloads than day 2. How many people downloaded the app in the first 3 days?

Day 1	16	
Day 2		
Day 3		

3) The school book fair sold 19 books on Wednesday. On Friday they sold 5 fewer than Thursday. On Thursday they sold 2 times as many as on Wednesday. How many books did they sell in those three days?

Wednesday	19	
Thursday		
Friday		

4) In a school district the elementary school earned $18 fundraising. The high school earned 4 times as much as the elementary school and the middle school earned $7 less than the elementary. How much did they earn total?

Elementary	18			
Middle		7		
High				

5) Emily was organizing her pictures on her computer. In folder 1 she had 29 pictures. In folder 2 she had 5 more pictures than folder 1. And in folder 3 she had 4 times as many pictures as folder 1. How many pictures does she have total?

Folder 1	29			
Folder 2		5		
Folder 3				

Answers:

1. **189**
2. **75**
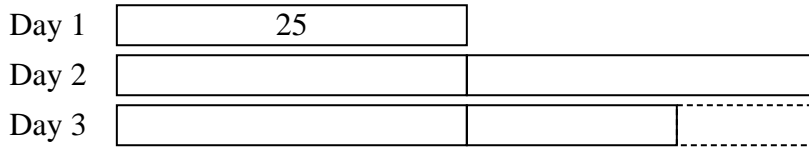3. **90**
4. **101**
5. **179**

Solve each problem using a tape diagram.

1) On Friday a game store sold 24 copies of the new Mario game. On Saturday they sold 4 times as many as on Friday. And then on Sunday they sold 8 less than the amount on Friday. How many did they sell total?
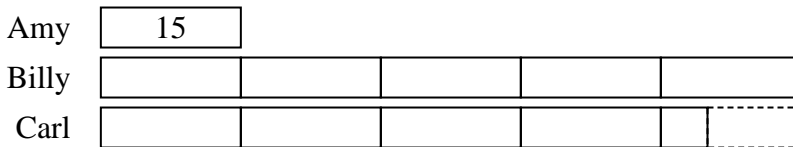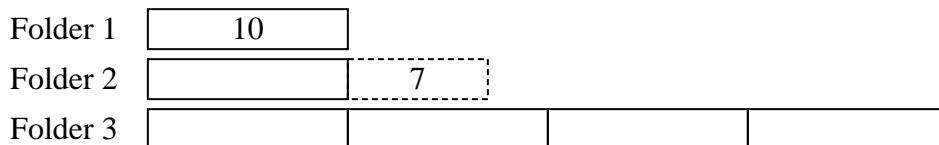
1. _____

2. _____

3. _____

4. _____

2) Janet created an app that she put on the app store. In the first day 25 people downloaded it. On the second day she had 2 times as many downloads. On the third day she had 10 fewer downloads than day 2. How many people downloaded the app in the first 3 days?

5. _____

3) On Monday morning a store had 16 customer. In the afternoon they had 5 fewer customers than the morning. In the evening they had 4 times as many customers as the morning. How many customers did they have total?

4) Amy, Billy and Carl were working on a school project. Amy spent 15 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 10 minutes fewer than Billy did. How many minutes total were they working?

5) Emily was organizing her pictures on her computer. In folder 1 she had 10 pictures. In folder 2 she had 7 more pictures than folder 1. And in folder 3 she had 4 times as many pictures as folder 1. How many pictures does she have total?

Solve each problem using a tape diagram.

1) On Friday a game store sold 24 copies of the new Mario game. On Saturday they sold 4 times as many as on Friday. And then on Sunday they sold 8 less than the amount on Friday. How many did they sell total?

Friday	24

Sunday	8

Saturday				

2) Janet created an app that she put on the app store. In the first day 25 people downloaded it. On the second day she had 2 times as many downloads. On the third day she had 10 fewer downloads than day 2. How many people downloaded the app in the first 3 days?

Day 1	25

Day 2		

Day 3		

3) On Monday morning a store had 16 customer. In the afternoon they had 5 fewer customers than the morning. In the evening they had 4 times as many customers as the morning. How many customers did they have total?

Morning	16

Afternoon	5

Evening				

4) Amy, Billy and Carl were working on a school project. Amy spent 15 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 10 minutes fewer than Billy did. How many minutes total were they working?

Amy	15

Billy					

Carl					

5) Emily was organizing her pictures on her computer. In folder 1 she had 10 pictures. In folder 2 she had 7 more pictures than folder 1. And in folder 3 she had 4 times as many pictures as folder 1. How many pictures does she have total?

Folder 1	10

Folder 2	7

Folder 3				

1.	**136**
2.	**115**
3.	**91**
4.	**155**
5.	**67**

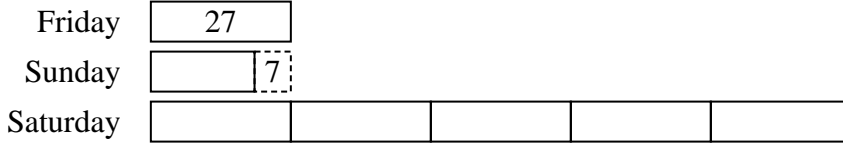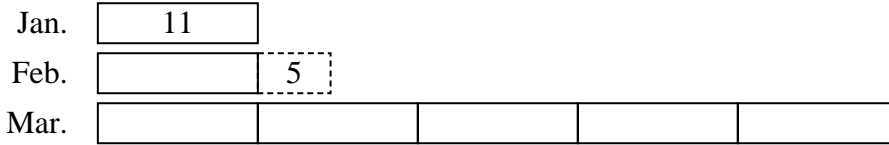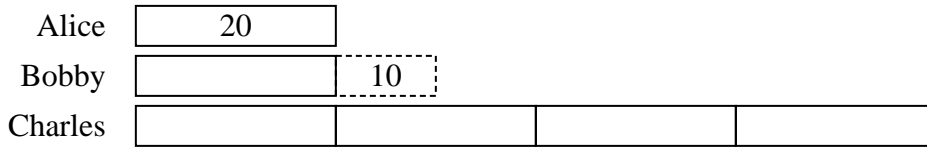**Solve each problem using a tape diagram.**

1) On Friday a game store sold 27 copies of the new Mario game. On Saturday they sold 5 times as many as on Friday. And then on Sunday they sold 7 less than the amount on Friday. How many did they sell total?
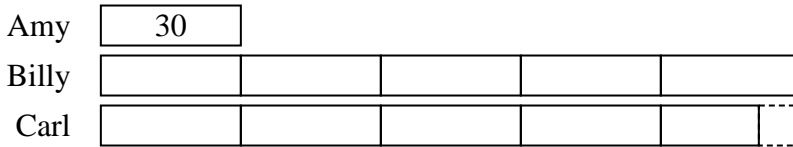
1. _____

2. _____

3. _____

4. _____

2) A musician spent 11 hours practicing in January. In February he practiced for 5 hours longer than he did in January. Then in March he practiced for 5 times as long as January. How hours did he spend practicing?
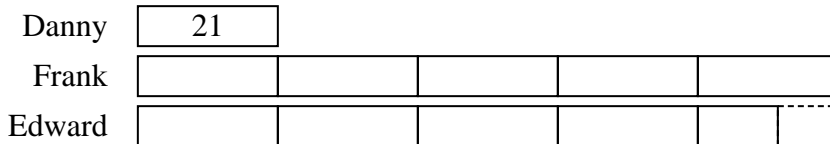
5. _____

3) Alice, Bobby and Charles were collecting cans. Charles collected 4 times as many cans as Alice. Alice collected 20 cans. And Bobby collected 10 more cans than Alice. How many cans did they collect total?

4) Amy, Billy and Carl were working on a school project. Amy spent 30 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 9 minutes fewer than Billy did. How many minutes total were they working?

5) Emily's TV emporium was running a contest to see which employee could sell the most TVs. Frank sold 5 times as many TVs as Danny. Edward sold 9 fewer than Frank. And Danny sold 21 TVs. How many TVs did they sell total?

Solve each problem using a tape diagram.

1) On Friday a game store sold 27 copies of the new Mario game. On Saturday they sold 5 times as many as on Friday. And then on Sunday they sold 7 less than the amount on Friday. How many did they sell total?

Friday	27

Sunday		7

Saturday					

1. _____ **182**

2) A musician spent 11 hours practicing in January. In February he practiced for 5 hours longer than he did in January. Then in March he practiced for 5 times as long as January. How hours did he spend practicing?

Jan.	11

Feb.		5

Mar.					

2. _____ **82**

3) Alice, Bobby and Charles were collecting cans. Charles collected 4 times as many cans as Alice. Alice collected 20 cans. And Bobby collected 10 more cans than Alice. How many cans did they collect total?

Alice	20

Bobby		10

Charles				

3. _____ **130**

4) Amy, Billy and Carl were working on a school project. Amy spent 30 minutes on her portion. Billy spent 5 times as long on his portion. And Carl spent 9 minutes fewer than Billy did. How many minutes total were they working?

Amy	30

Billy					

Carl					

4. _____ **321**

5) Emily's TV emporium was running a contest to see which employee could sell the most TVs. Frank sold 5 times as many TVs as Danny. Edward sold 9 fewer than Frank. And Danny sold 21 TVs. How many TVs did they sell total?

Danny	21

Frank					

Edward					

5. _____ **222**

Solve each problem using a tape diagram.

1) Victor was reading a book. He read 16 pages on Monday and 4 times as many pages on Tuesday. On Wednesday he read 10 fewer pages than the amount he read on Tuesday. How many pages did he read total?

2) In April, Larry's Lawn Care mowed 15 lawns. They mowed 4 times as many in May and 8 fewer in June. How many lawns did they mow over those three months?

3) Alice, Bobby and Charles were collecting cans. Charles collected 5 times as many cans as Alice. Alice collected 12 cans. And Bobby collected 8 more cans than Alice. How many cans did they collect total?

4) Amy, Billy and Carl were working on a school project. Amy spent 21 minutes on her portion. Billy spent 4 times as long on his portion. And Carl spent 5 minutes fewer than Billy did. How many minutes total were they working?

5) Emily was organizing her pictures on her computer. In folder 1 she had 18 pictures. In folder 2 she had 10 more pictures than folder 1. And in folder 3 she had 3 times as many pictures as folder 1. How many pictures does she have total?
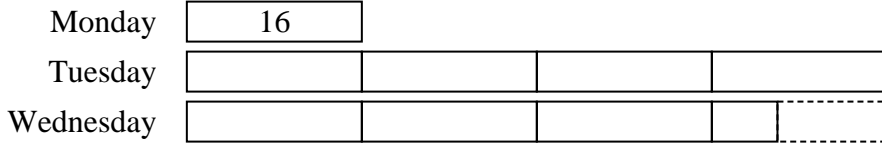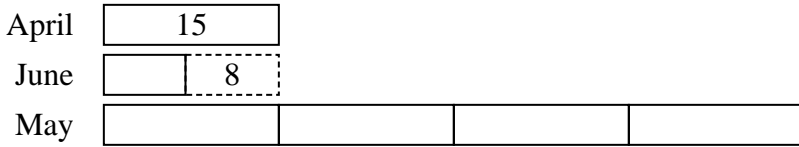
1. _____

2. _____

3. _____

4. _____

5. _____

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

Multiples and Differences With Tape Diagram   Name: **Answer Key**
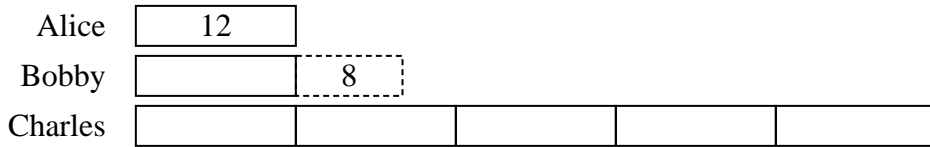
Solve each problem using a tape diagram.

Answers

1) Victor was reading a book. He read 16 pages on Monday and 4 times as many pages on Tuesday. On Wednesday he read 10 fewer pages than the amount he read on Tuesday. How many pages did he read total?
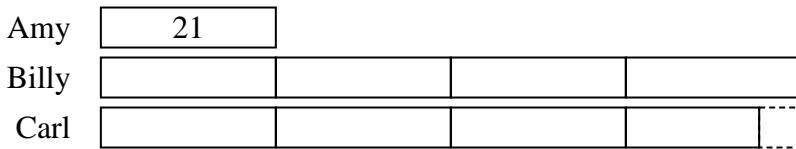
Monday | 16
Tuesday
Wednesday

1. **134**

2. **82**

3. **92**

4. **184**

5. **100**

2) In April, Larry's Lawn Care mowed 15 lawns. They mowed 4 times as many in May and 8 fewer in June. How many lawns did they mow over those three months?
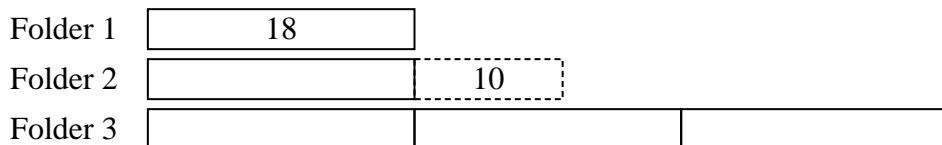
April | 15
June | 8
May

3) Alice, Bobby and Charles were collecting cans. Charles collected 5 times as many cans as Alice. Alice collected 12 cans. And Bobby collected 8 more cans than Alice. How many cans did they collect total?

Alice | 12
Bobby | 8
Charles

4) Amy, Billy and Carl were working on a school project. Amy spent 21 minutes on her portion. Billy spent 4 times as long on his portion. And Carl spent 5 minutes fewer than Billy did. How many minutes total were they working?

Amy | 21
Billy
Carl

5) Emily was organizing her pictures on her computer. In folder 1 she had 18 pictures. In folder 2 she had 10 more pictures than folder 1. And in folder 3 she had 3 times as many pictures as folder 1. How many pictures does she have total?

Folder 1 | 18
Folder 2 | 10
Folder 3

Math   www.CommonCoreSheets.com   10

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