

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

- 1) Faye uploaded a video to youtube that was 13 minutes long. The next week she uploaded a video that was 9 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?
- 2) On Monday morning a store had 23 customer. In the afternoon they had 5 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?
- 3) A musician spent 30 hours practicing in January. In February he practiced for 8 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?
- 4) In April, Larry's Lawn Care mowed 10 lawns. They mowed 5 times as many in May and 5 fewer in June. How many lawns did they mow over those three months?
- 5) Amy, Billy and Carl were working on a school project. Amy spent 28 minutes on her portion. Billy spent 8 times as long on his portion. And Carl spent 3 minutes fewer than Billy did. How many minutes total were they working?

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



Solve each problem using a tape diagram.

Answers

- 1) Faye uploaded a video to youtube that was 13 minutes long. The next week she uploaded a video that was 9 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	<input type="text" value="13"/>				
Week 2	<input type="text"/>	<input type="text" value="9"/>			
Week 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

1. **100**2. **110**3. **128**4. **65**5. **473**

- 2) On Monday morning a store had 23 customer. In the afternoon they had 5 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	<input type="text" value="23"/>			
Afternoon	<input type="text"/>	<input type="text" value="5"/>		
Evening	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 3) A musician spent 30 hours practicing in January. In February he practiced for 8 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.	<input type="text" value="30"/>			
Feb.	<input type="text"/>	<input type="text" value="8"/>		
Mar.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 4) In April, Larry's Lawn Care mowed 10 lawns. They mowed 5 times as many in May and 5 fewer in June. How many lawns did they mow over those three months?

April	<input type="text" value="10"/>				
June	<input type="text"/>	<input type="text" value="5"/>			
May	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 5) Amy, Billy and Carl were working on a school project. Amy spent 28 minutes on her portion. Billy spent 8 times as long on his portion. And Carl spent 3 minutes fewer than Billy did. How many minutes total were they working?

Amy	<input type="text" value="28"/>						
Billy	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Carl	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Answers

- 1) At the fair the ring toss booth took in \$20 the first hour. The second hour they took \$10 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.
- 2) In October a pet store sold 27 kittens. In November they sold 8 times as many kittens as in October. Then in December they sold 2 fewer kittens as in November. How many kittens did they sell across the three months?
- 3) Maria was organizing her pictures on her computer. In folder 1 she had 22 pictures. In folder 2 she had 5 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?
- 4) On Friday a game store sold 26 copies of the new Mario game. On Saturday they sold 2 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?
- 5) A musician spent 28 hours practicing in January. In February he practiced for 6 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?

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



Solve each problem using a tape diagram.

Answers

- 1) At the fair the ring toss booth took in \$20 the first hour. The second hour they took \$10 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	<input type="text" value="20"/>
Second Hour	<input type="text" value="10"/>
Third Hour	<input type="text" value="100"/>

1. **130**2. **457**3. **115**4. **97**5. **202**

- 2) In October a pet store sold 27 kittens. In November they sold 8 times as many kittens as in October. Then in December they sold 2 fewer kittens as in November. How many kittens did they sell across the three months?

October	<input type="text" value="27"/>
November	<input type="text" value="216"/>
December	<input type="text" value="214"/>

- 3) Maria was organizing her pictures on her computer. In folder 1 she had 22 pictures. In folder 2 she had 5 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	<input type="text" value="22"/>
Folder 2	<input type="text" value="27"/>
Folder 3	<input type="text" value="66"/>

- 4) On Friday a game store sold 26 copies of the new Mario game. On Saturday they sold 2 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	<input type="text" value="26"/>
Sunday	<input type="text" value="19"/>
Saturday	<input type="text" value="52"/>

- 5) A musician spent 28 hours practicing in January. In February he practiced for 6 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.	<input type="text" value="28"/>
Feb.	<input type="text" value="34"/>
Mar.	<input type="text" value="140"/>



Answers

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



Solve each problem using a tape diagram.

Answers

- 1) Faye's TV emporium was running a contest to see which employee could sell the most TVs. Frank sold 9 times as many TVs as Danny. Edward sold 2 fewer than Frank. And Danny sold 27 TVs. How many TVs did they sell total?

Danny	27
Frank	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Edward	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

1. **511**

- 2) Alice, Bobby and Charles were collecting cans. Charles collected 2 times as many cans as Alice. Alice collected 14 cans. And Bobby collected 8 more cans than Alice. How many cans did they collect total?

Alice	14
Bobby	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> 8
Charles	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

2. **64**

3. **53**

4. **91**

5. **46**

- 3) Janet uploaded a video to youtube that was 11 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?

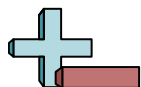
Week 1	11
Week 2	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> 9
Week 3	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

- 4) 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	<div><div></div><div></div><div></div><div></div><div></div></div> 5
Evening	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

- 5) In a school district the elementary school earned \$11 fundraising. The high school earned 3 times as much as the elementary school and the middle school earned \$9 less than the elementary. How much did they earn total?

Elementary	11
Middle	<div><div></div><div></div><div></div><div></div><div></div></div> 9
High	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>



Solve each problem using a tape diagram.

Answers

- 1) Alice, Bobby and Charles were collecting cans. Charles collected 3 times as many cans as Alice. Alice collected 17 cans. And Bobby collected 5 more cans than Alice. How many cans did they collect total?

Alice	<div>17</div>	
Bobby	<div></div>	5
Charles	<div></div>	<div></div>

1. **90**2. **123**3. **415**4. **325**5. **100**

- 2) In one day a restaurant used 19 knives. They used 9 more forks than they used knives. They also used 4 as many spoons as knives. How many utensils do they use in a day?

knives	<div>19</div>	
forks	<div></div>	9
spoons	<div></div>	<div></div>

- 3) The school book fair sold 20 books on Wednesday. On Friday they sold 5 fewer than Thursday. On Thursday they sold 10 times as many as on Wednesday. How many books did they sell in those three days?

Wednesday	<div>20</div>	
Thursday	<div></div>	<div></div>
Friday	<div></div>	<div></div>

- 4) Debby's TV emporium was running a contest to see which employee could sell the most TVs. Frank sold 7 times as many TVs as Danny. Edward sold 5 fewer than Frank. And Danny sold 22 TVs. How many TVs did they sell total?

Danny	<div>22</div>	
Frank	<div></div>	<div></div>
Edward	<div></div>	<div></div>

- 5) At the fair the ring toss booth took in \$22 the first hour. The second hour they took \$10 less than the first hour. And the third hour they took 3 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

First Hour	<div>22</div>	
Second Hour	<div></div>	10
Third Hour	<div></div>	<div></div>



Solve each problem using a tape diagram.

Answers

- 1) Amy 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 4 times as many pictures as folder 1. How many pictures does she have total?
- 2) Alice, Bobby and Charles were collecting cans. Charles collected 5 times as many cans as Alice. Alice collected 15 cans. And Bobby collected 6 more cans than Alice. How many cans did they collect total?
- 3) The school book fair sold 21 books on Wednesday. On Friday they sold 3 fewer than Thursday. On Thursday they sold 8 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 20 minutes on her portion. Billy spent 8 times as long on his portion. And Carl spent 2 minutes fewer than Billy did. How many minutes total were they working?
- 5) On Friday a game store sold 17 copies of the new Mario game. On Saturday they sold 3 times as many as on Friday. And then on Sunday they sold 10 less than the amount on Friday. How many did they sell total?

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



Solve each problem using a tape diagram.

Answers

- 1) Amy 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 4 times as many pictures as folder 1. How many pictures does she have total?

Folder 1	<input type="text" value="18"/>				
Folder 2	<input type="text"/>	<input type="text" value="10"/>			
Folder 3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

1. **118**2. **111**3. **354**4. **338**5. **75**

- 2) Alice, Bobby and Charles were collecting cans. Charles collected 5 times as many cans as Alice. Alice collected 15 cans. And Bobby collected 6 more cans than Alice. How many cans did they collect total?

Alice	<input type="text" value="15"/>						
Bobby	<input type="text"/>	<input type="text" value="6"/>					
Charles	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 3) The school book fair sold 21 books on Wednesday. On Friday they sold 3 fewer than Thursday. On Thursday they sold 8 times as many as on Wednesday. How many books did they sell in those three days?

Wednesday	<input type="text" value="21"/>								
Thursday	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Friday	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 4) Amy, Billy and Carl were working on a school project. Amy spent 20 minutes on her portion. Billy spent 8 times as long on his portion. And Carl spent 2 minutes fewer than Billy did. How many minutes total were they working?

Amy	<input type="text" value="20"/>								
Billy	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Carl	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

- 5) On Friday a game store sold 17 copies of the new Mario game. On Saturday they sold 3 times as many as on Friday. And then on Sunday they sold 10 less than the amount on Friday. How many did they sell total?

Friday	<input type="text" value="17"/>						
Sunday	<input type="text"/>	<input type="text" value="10"/>					
Saturday	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Answers

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



Solve each problem using a tape diagram.

Answers

- 1) Debby created an app that she put on the app store. In the first day 15 people downloaded it. On the second day she had 5 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	15					
Day 2						
Day 3						

1. **160**

2. **62**

3. **96**

4. **61**

5. **470**

- 2) Olivia uploaded a video to youtube that was 14 minutes long. The next week she uploaded a video that was 6 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	14				
Week 2			6		
Week 3					

- 3) In one day a restaurant used 13 knives. They used 5 more forks than they used knives. They also used 5 as many spoons as knives. How many utensils do they use in a day?

knives	13				
forks		5			
spoons					

- 4) At the fair the ring toss booth took in \$11 the first hour. The second hour they took \$5 less than the first hour. And the third hour they took 4 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

First Hour	11				
Second Hour		5			
Third Hour					

- 5) Adam was reading a book. He read 25 pages on Monday and 9 times as many pages on Tuesday. On Wednesday he read 5 fewer pages than the amount he read on Tuesday. How many pages did he read total?

Monday	25							
Tuesday								
Wednesday								



Answers

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



Solve each problem using a tape diagram.

Answers

- 1) In April, Larry's Lawn Care mowed 16 lawns. They mowed 4 times as many in May and 10 fewer in June. How many lawns did they mow over those three months?

April	<div>16</div>
June	<div><div></div>10</div>
May	<div><div></div><div></div><div></div><div></div></div>

1. **86**2. **34**3. **117**4. **206**5. **100**

- 2) In a school district the elementary school earned \$10 fundraising. The high school earned 2 times as much as the elementary school and the middle school earned \$6 less than the elementary. How much did they earn total?

Elementary	<div>10</div>
Middle	<div><div></div>6</div>
High	<div><div></div><div></div></div>

- 3) A musician spent 16 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.	<div>16</div>
Feb.	<div><div></div>5</div>
Mar.	<div><div></div><div></div><div></div><div></div><div></div></div>

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

Monday	<div>10</div>
Tuesday	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
Wednesday	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>

- 5) While playing a video game Aaron, Bianca and Cathy counted the enemies they defeated. Aaron defeated 13. Bianca defeated 9 more than Aaron. And Cathy defeated 5 times as many as Aaron. How many enemies did they defeat total?

Aaron	<div>13</div>
Bianca	<div><div></div>9</div>
Cathy	<div><div></div><div></div><div></div><div></div><div></div></div>



Solve each problem using a tape diagram.

Answers

- 1) In April, Larry's Lawn Care mowed 17 lawns. They mowed 5 times as many in May and 8 fewer in June. How many lawns did they mow over those three months?
- 2) The school book fair sold 15 books on Wednesday. On Friday they sold 4 fewer than Thursday. On Thursday they sold 7 times as many as on Wednesday. How many books did they sell in those three days?
- 3) Faye uploaded a video to youtube that was 25 minutes long. The next week she uploaded a video that was 5 minutes longer. Then the following week she uploaded a video that was 3 times as long as the first week. How many minutes did she upload total?
- 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) While playing a video game Aaron, Bianca and Cathy counted the enemies they defeated. Aaron defeated 12. Bianca defeated 7 more than Aaron. And Cathy defeated 4 times as many as Aaron. How many enemies did they defeat total?

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



Solve each problem using a tape diagram.

Answers

- 1) In April, Larry's Lawn Care mowed 17 lawns. They mowed 5 times as many in May and 8 fewer in June. How many lawns did they mow over those three months?

April	<input type="text" value="17"/>					
June	<input type="text" value="8"/>					
May	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr></table>					

1. **111**2. **221**3. **130**4. **157**5. **79**

- 2) The school book fair sold 15 books on Wednesday. On Friday they sold 4 fewer than Thursday. On Thursday they sold 7 times as many as on Wednesday. How many books did they sell in those three days?

Wednesday	<input type="text" value="15"/>							
Thursday	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							
Friday	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							

- 3) Faye uploaded a video to youtube that was 25 minutes long. The next week she uploaded a video that was 5 minutes longer. Then the following week she uploaded a video that was 3 times as long as the first week. How many minutes did she upload total?

Week 1	<input type="text" value="25"/>			
Week 2	<input type="text" value="5"/>			
Week 3	<table border="1"><tr><td></td><td></td><td></td></tr></table>			

- 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	<input type="text" value="27"/>				
Middle	<input type="text" value="5"/>				
High	<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>				

- 5) While playing a video game Aaron, Bianca and Cathy counted the enemies they defeated. Aaron defeated 12. Bianca defeated 7 more than Aaron. And Cathy defeated 4 times as many as Aaron. How many enemies did they defeat total?

Aaron	<input type="text" value="12"/>				
Bianca	<input type="text" value="7"/>				
Cathy	<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>				



Answers

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



Solve each problem using a tape diagram.

- 1) On Friday a game store sold 16 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	16
Sunday	<div style="border: 1px solid black; display: inline-block; width: 40px; height: 15px;"></div> 5
Saturday	<div style="border: 1px solid black; display: inline-block; width: 400px; height: 15px;"></div>

- 2) Amy, Billy and Carl were working on a school project. Amy spent 17 minutes on her portion. Billy spent 9 times as long on his portion. And Carl spent 5 minutes fewer than Billy did. How many minutes total were they working?

Amy	17
Billy	<div style="border: 1px solid black; display: inline-block; width: 360px; height: 15px;"></div>
Carl	<div style="border: 1px solid black; display: inline-block; width: 320px; height: 15px;"></div>

- 3) Katie was organizing her pictures on her computer. In folder 1 she had 27 pictures. In folder 2 she had 10 more pictures than folder 1. And in folder 3 she had 2 times as many pictures as folder 1. How many pictures does she have total?

Folder 1	27
Folder 2	<div style="border: 1px solid black; display: inline-block; width: 240px; height: 15px;"></div> 10
Folder 3	<div style="border: 1px solid black; display: inline-block; width: 480px; height: 15px;"></div>

- 4) In one day a restaurant used 11 knives. They used 10 more forks than they used knives. They also used 5 as many spoons as knives. How many utensils do they use in a day?

knives	11
forks	<div style="border: 1px solid black; display: inline-block; width: 80px; height: 15px;"></div> 10
spoons	<div style="border: 1px solid black; display: inline-block; width: 380px; height: 15px;"></div>

- 5) In one day George's Pizza Palace sold 21 sausage pizzas. They sold 8 fewer cheese pizzas and 2 times as many pepperoni pizzas. How many pizzas did they sell total?

sausage	21
cheese	<div style="border: 1px solid black; display: inline-block; width: 120px; height: 15px;"></div> 8
pepperoni	<div style="border: 1px solid black; display: inline-block; width: 420px; height: 15px;"></div>

Answers

1. **107**
2. **318**
3. **118**
4. **87**
5. **76**



Solve each problem using a tape diagram.

Answers

- 1) At the fair the ring toss booth took in \$18 the first hour. The second hour they took \$5 less than the first hour. And the third hour they took 4 times the amount in the first hour. How much money did the ring toss booth take in the first 3 hours.

First Hour	<input type="text" value="18"/>
Second Hour	<input type="text" value="5"/>
Third Hour	<input type="text"/>

1. **103**2. **122**3. **297**4. **99**5. **302**

- 2) In one day a restaurant used 29 knives. They used 6 more forks than they used knives. They also used 2 as many spoons as knives. How many utensils do they use in a day?

knives	<input type="text" value="29"/>
forks	<input type="text" value="6"/>
spoons	<input type="text"/>

- 3) Amy, Billy and Carl were working on a school project. Amy spent 23 minutes on her portion. Billy spent 6 times as long on his portion. And Carl spent 2 minutes fewer than Billy did. How many minutes total were they working?

Amy	<input type="text" value="23"/>
Billy	<input type="text"/>
Carl	<input type="text"/>

- 4) While playing a video game Aaron, Bianca and Cathy counted the enemies they defeated. Aaron defeated 18. Bianca defeated 9 more than Aaron. And Cathy defeated 3 times as many as Aaron. How many enemies did they defeat total?

Aaron	<input type="text" value="18"/>
Bianca	<input type="text" value="9"/>
Cathy	<input type="text"/>

- 5) Emily's TV emporium was running a contest to see which employee could sell the most TVs. Frank sold 8 times as many TVs as Danny. Edward sold 4 fewer than Frank. And Danny sold 18 TVs. How many TVs did they sell total?

Danny	<input type="text" value="18"/>
Frank	<input type="text"/>
Edward	<input type="text"/>