Name:

Solve each problem using a tape diagram.

1) A store sold 50 C batteries in a day. They sold 3 as many AAA batteries as C batteries and 3 times as many AA as AAA batteries. How many batteries did they sell total?

2) An ice cream shop sold 37 waffle cones. They sold 8 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

3) A school principal was looking over grades. In math 22 students scored a C. 3 times as many students scored a B. And 6 times as many students scored an A as scored a B. How many students scored an A, B or C?

4) On week 1 a football player jogged for 29 minutes. On week 2 he jogged for 2 times as long. On week 3 he jogged for 5 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

5) An ice cream shop sold 41 waffle cones. They sold 2 times as many sugar cones as waffle cones and 2 times as many wafer cones as sugar cones. How many cones did they sell total?

Answers

1. _____
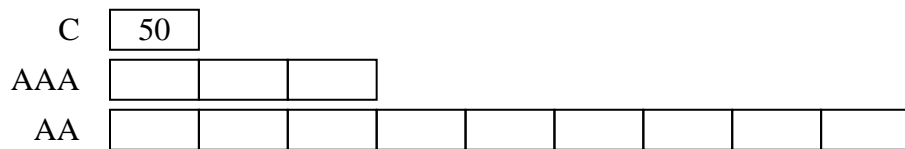
2. _____

3. _____

4. _____

5. _____

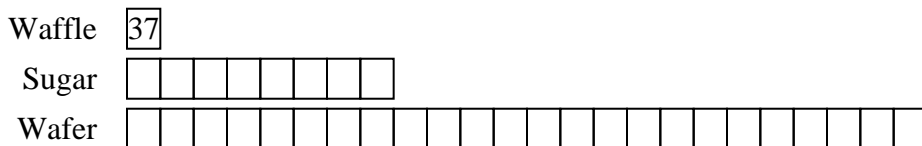1-5 | 80 | 60 | 40 | 20 | 0

Solve each problem using a tape diagram.

1) A store sold 50 C batteries in a day. They sold 3 as many AAA batteries as C batteries and 3 times as many AA as AAA batteries. How many batteries did they sell total?

C | 50 |

AAA | | | |

AA | | | | | | | | | |

2) An ice cream shop sold 37 waffle cones. They sold 8 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle |37|

Sugar | | | | | | | | |

Wafer | | | | | | | | | | | | | | | | | | | | | | | | |

3) A school principal was looking over grades. In math 22 students scored a C. 3 times as many students scored a B. And 6 times as many students scored an A as scored a B. How many students scored an A, B or C?

C |22|

B | | | |

A | | | | | | | | | | | | | | | | | | |

4) On week 1 a football player jogged for 29 minutes. On week 2 he jogged for 2 times as long. On week 3 he jogged for 5 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1 | 29 |

Week 2 | | |

Week 3 | | | | | | | | | | |

5) An ice cream shop sold 41 waffle cones. They sold 2 times as many sugar cones as waffle cones and 2 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle | 41 |

Sugar | | |

Wafer | | | | |

	Answers
1.	**650**
2.	**1221**
3.	**484**
4.	**377**
5.	**287**

Multiplication With Tape Diagram

Name: _____

Solve each problem using a tape diagram.

Answers

1) On week 1 a football player jogged for 46 minutes. On week 2 he jogged for 7 times as long. On week 3 he jogged for 9 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

1. _____

2. _____

3. _____

4. _____

2) In one day a restaurant used 11 knives. They also used 2 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

5. _____

3) Chef Mike buys 35 carrots. He buys 2 times as many potatoes as carrots and 3 times as many tomatoes as potatoes. How many vegetables did he buy all together?
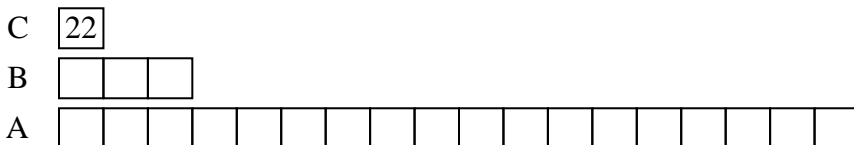
4) An ice cream shop sold 18 waffle cones. They sold 4 times as many sugar cones as waffle cones and 2 times as many wafer cones as sugar cones. How many cones did they sell total?
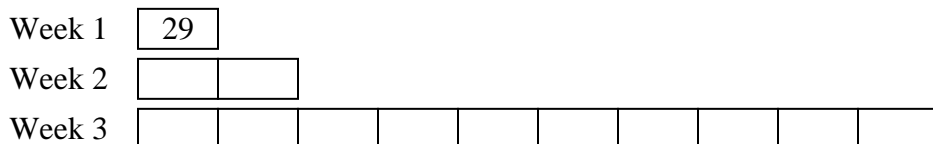
5) A school principal was looking over grades. In math 12 students scored a C. 3 times as many students scored a B. And 3 times as many students scored an A as scored a B. How many students scored an A, B or C?

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

Multiplication With Tape Diagram

Solve each problem using a tape diagram.

Answers

1) On week 1 a football player jogged for 46 minutes. On week 2 he jogged for 7 times as long. On week 3 he jogged for 9 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1   46

Week 2 |||||||

Week 3 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. _____ **3266**

2) In one day a restaurant used 11 knives. They also used 2 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

knives | 11 |

forks | | |

spoons | | | | |

2. _____ **77**

3. _____ **315**

4. _____ **234**

3) Chef Mike buys 35 carrots. He buys 2 times as many potatoes as carrots and 3 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots | 35 |

Potatoes | | |

Tomatoes | | | | | | |

5. _____ **156**

4) An ice cream shop sold 18 waffle cones. They sold 4 times as many sugar cones as waffle cones and 2 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle | 18 |

Sugar | | | | |

Wafer | | | | | | | | |

5) A school principal was looking over grades. In math 12 students scored a C. 3 times as many students scored a B. And 3 times as many students scored an A as scored a B. How many students scored an A, B or C?
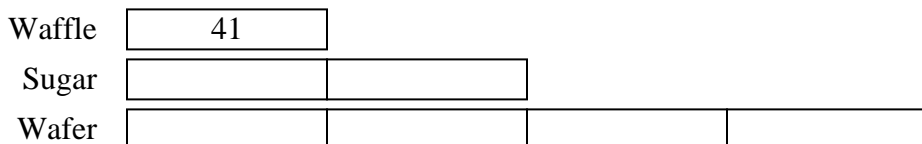
C | 12 |

B | | | |

A | | | | | | | | | |

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

Solve each problem using a tape diagram.

1) On week 1 a football player jogged for 18 minutes. On week 2 he jogged for 3 times as long. On week 3 he jogged for 2 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

1. _____

2. _____

3. _____

4. _____

2) An ice cream shop sold 30 waffle cones. They sold 3 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

5. _____

3) In one day a restaurant used 22 knives. They also used 3 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

4) An ice cream shop sold 27 waffle cones. They sold 4 times as many sugar cones as waffle cones and 8 times as many wafer cones as sugar cones. How many cones did they sell total?

5) Chef Adam buys 29 carrots. He buys 4 times as many potatoes as carrots and 7 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Solve each problem using a tape diagram.

1) On week 1 a football player jogged for 18 minutes. On week 2 he jogged for 3 times as long. On week 3 he jogged for 2 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1 | 18 |

Week 2 | | | |

Week 3 | | | | | | |

1. ____**180**____

2) An ice cream shop sold 30 waffle cones. They sold 3 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle | 30 |

Sugar | | | |

Wafer | | | | | | | | | |

2. ____**390**____

3) In one day a restaurant used 22 knives. They also used 3 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

knives | 22 |

forks | | | |

spoons | | | | | | |

3. ____**220**____

4. ____**999**____

4) An ice cream shop sold 27 waffle cones. They sold 4 times as many sugar cones as waffle cones and 8 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle | 27 |

Sugar | | | | |

Wafer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

5. ____**957**____

5) Chef Adam buys 29 carrots. He buys 4 times as many potatoes as carrots and 7 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots | 29 |

Potatoes | | | | |

Tomatoes | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Name:

Solve each problem using a tape diagram.

1) An ice cream shop sold 29 waffle cones. They sold 2 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

1. _____

2. _____

3. _____

4. _____

2) In one day a restaurant used 50 knives. They also used 3 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

5. _____

3) An ice cream shop sold 28 waffle cones. They sold 3 times as many sugar cones as waffle cones and 9 times as many wafer cones as sugar cones. How many cones did they sell total?

4) On week 1 a football player jogged for 13 minutes. On week 2 he jogged for 4 times as long. On week 3 he jogged for 3 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

5) A school principal was looking over grades. In math 40 students scored a C. 4 times as many students scored a B. And 7 times as many students scored an A as scored a B. How many students scored an A, B or C?
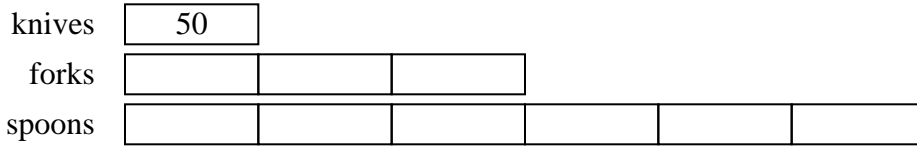
Solve each problem using a tape diagram.

1) An ice cream shop sold 29 waffle cones. They sold 2 times as many sugar cones as waffle cones and 3 times as many wafer cones as sugar cones. How many cones did they sell total?

1. **261**

Waffle	29
Sugar		
Wafer						

2. **500**

2) In one day a restaurant used 50 knives. They also used 3 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

3. **868**

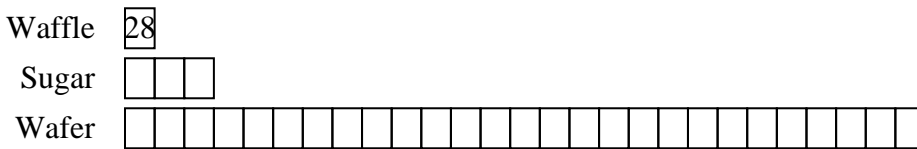| knives | 50 |
| forks | | | |
| spoons | | | | | | |

4. **221**

5. **1320**

3) An ice cream shop sold 28 waffle cones. They sold 3 times as many sugar cones as waffle cones and 9 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle	28
Sugar			
Wafer																												

4) On week 1 a football player jogged for 13 minutes. On week 2 he jogged for 4 times as long. On week 3 he jogged for 3 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1	13
Week 2				
Week 3												

5) A school principal was looking over grades. In math 40 students scored a C. 4 times as many students scored a B. And 7 times as many students scored an A as scored a B. How many students scored an A, B or C?

C	40
B				
A																												

Solve each problem using a tape diagram.

1) On week 1 a football player jogged for 37 minutes. On week 2 he jogged for 7 times as long. On week 3 he jogged for 4 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

1. _____

2. _____

3. _____

4. _____

2) A school principal was looking over grades. In math 30 students scored a C. 2 times as many students scored a B. And 2 times as many students scored an A as scored a B. How many students scored an A, B or C?

5. _____

3) An ice cream shop sold 19 waffle cones. They sold 5 times as many sugar cones as waffle cones and 6 times as many wafer cones as sugar cones. How many cones did they sell total?
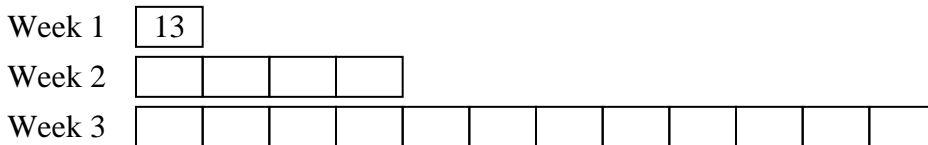
4) Chef Paul buys 20 carrots. He buys 5 times as many potatoes as carrots and 7 times as many tomatoes as potatoes. How many vegetables did he buy all together?

5) A store sold 14 C batteries in a day. They sold 2 as many AAA batteries as C batteries and 2 times as many AA as AAA batteries. How many batteries did they sell total?

Solve each problem using a tape diagram.

1) On week 1 a football player jogged for 37 minutes. On week 2 he jogged for 7 times as long. On week 3 he jogged for 4 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1   37

Week 2 ☐☐☐☐☐☐☐

Week 3 ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

1. ___**1332**___

2. ___**210**___

2) A school principal was looking over grades. In math 30 students scored a C. 2 times as many students scored a B. And 2 times as many students scored an A as scored a B. How many students scored an A, B or C?

C ☐ 30

B ☐☐

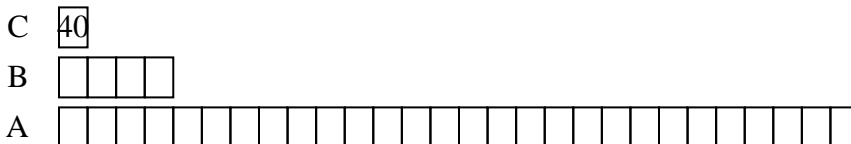A ☐☐☐☐

3. ___**684**___

4. ___**820**___

3) An ice cream shop sold 19 waffle cones. They sold 5 times as many sugar cones as waffle cones and 6 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle   19

Sugar ☐☐☐☐☐

Wafer ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

5. ___**98**___

4) Chef Paul buys 20 carrots. He buys 5 times as many potatoes as carrots and 7 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots   20

Potatoes ☐☐☐☐☐

Tomatoes ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

5) A store sold 14 C batteries in a day. They sold 2 as many AAA batteries as C batteries and 2 times as many AA as AAA batteries. How many batteries did they sell total?

C ☐ 14

AAA ☐☐

AA ☐☐☐☐

Solve each problem using a tape diagram.

1) A school principal was looking over grades. In math 29 students scored a C. 2 times as many students scored a B. And 3 times as many students scored an A as scored a B. How many students scored an A, B or C?

1. _____

2. _____

3. _____

4. _____

2) On week 1 a football player jogged for 22 minutes. On week 2 he jogged for 3 times as long. On week 3 he jogged for 2 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

5. _____

3) In one day a restaurant used 43 knives. They also used 2 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

4) On week 1 a football player jogged for 33 minutes. On week 2 he jogged for 6 times as long. On week 3 he jogged for 8 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

5) A school principal was looking over grades. In math 41 students scored a C. 4 times as many students scored a B. And 9 times as many students scored an A as scored a B. How many students scored an A, B or C?

Solve each problem using a tape diagram.

1) A school principal was looking over grades. In math 29 students scored a C. 2 times as many students scored a B. And 3 times as many students scored an A as scored a B. How many students scored an A, B or C?

| C | 29 | | | | | |

1. **261**

2) On week 1 a football player jogged for 22 minutes. On week 2 he jogged for 3 times as long. On week 3 he jogged for 2 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

2. **220**

Week 1 | 22 |

Week 2 | | | |

Week 3 | | | | | | |

3. **387**

4. **1815**

5. **1681**

3) In one day a restaurant used 43 knives. They also used 2 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

knives | 43 |

forks | | |

spoons | | | | | | |

4) On week 1 a football player jogged for 33 minutes. On week 2 he jogged for 6 times as long. On week 3 he jogged for 8 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1 33

Week 2

Week 3

5) A school principal was looking over grades. In math 41 students scored a C. 4 times as many students scored a B. And 9 times as many students scored an A as scored a B. How many students scored an A, B or C?

C 41

B

A

Solve each problem using a tape diagram.

1) A school principal was looking over grades. In math 34 students scored a C. 4 times as many students scored a B. And 2 times as many students scored an A as scored a B. How many students scored an A, B or C?

1. _____

2. _____

3. _____

4. _____

2) On week 1 a football player jogged for 24 minutes. On week 2 he jogged for 4 times as long. On week 3 he jogged for 8 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

5. _____

3) A store sold 44 C batteries in a day. They sold 8 as many AAA batteries as C batteries and 8 times as many AA as AAA batteries. How many batteries did they sell total?

4) In one day a restaurant used 39 knives. They also used 4 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

5) In one day a restaurant used 16 knives. They also used 2 as many forks as they used knives. And 9 times as many spoons as forks. How many utensils do they use in a day?

Solve each problem using a tape diagram.

Answers

1) A school principal was looking over grades. In math 34 students scored a C. 4 times as many students scored a B. And 2 times as many students scored an A as scored a B. How many students scored an A, B or C?

C [34]
B [ ][ ][ ][ ]
A [ ][ ][ ][ ][ ][ ][ ][ ]

1. __**442**__

2. __**888**__

2) On week 1 a football player jogged for 24 minutes. On week 2 he jogged for 4 times as long. On week 3 he jogged for 8 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1   [24]
Week 2   [ ][ ][ ][ ]
Week 3   [ ]

3. __**3212**__

4. __**663**__

3) A store sold 44 C batteries in a day. They sold 8 as many AAA batteries as C batteries and 8 times as many AA as AAA batteries. How many batteries did they sell total?

C [44]
AAA [ ][ ][ ][ ][ ][ ][ ][ ]
AA [ ]

5. __**336**__

4) In one day a restaurant used 39 knives. They also used 4 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

knives   [39]
forks   [ ][ ][ ][ ]
spoons   [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

5) In one day a restaurant used 16 knives. They also used 2 as many forks as they used knives. And 9 times as many spoons as forks. How many utensils do they use in a day?

knives   [16]
forks   [ ][ ]
spoons   [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

Solve each problem using a tape diagram.

1) A school principal was looking over grades. In math 40 students scored a C. 9 times as many students scored a B. And 9 times as many students scored an A as scored a B. How many students scored an A, B or C?

1. _____

2. _____

3. _____

4. _____

2) Chef Roger buys 42 carrots. He buys 2 times as many potatoes as carrots and 4 times as many tomatoes as potatoes. How many vegetables did he buy all together?

5. _____

3) A store sold 26 C batteries in a day. They sold 2 as many AAA batteries as C batteries and 3 times as many AA as AAA batteries. How many batteries did they sell total?

4) An ice cream shop sold 19 waffle cones. They sold 2 times as many sugar cones as waffle cones and 2 times as many wafer cones as sugar cones. How many cones did they sell total?

5) An ice cream shop sold 27 waffle cones. They sold 6 times as many sugar cones as waffle cones and 4 times as many wafer cones as sugar cones. How many cones did they sell total?

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

Solve each problem using a tape diagram.

Answers

1) A school principal was looking over grades. In math 40 students scored a C. 9 times as many students scored a B. And 9 times as many students scored an A as scored a B. How many students scored an A, B or C?

C 40

B ▯▯▯▯▯▯▯▯▯

A ▯▯

1. **3640**

2) Chef Roger buys 42 carrots. He buys 2 times as many potatoes as carrots and 4 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots	42							
Potatoes								
Tomatoes								

2. **462**

3. **234**

4. **133**

3) A store sold 26 C batteries in a day. They sold 2 as many AAA batteries as C batteries and 3 times as many AA as AAA batteries. How many batteries did they sell total?

C	26					
AAA						
AA						

5. **837**

4) An ice cream shop sold 19 waffle cones. They sold 2 times as many sugar cones as waffle cones and 2 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle	19			
Sugar				
Wafer				

5) An ice cream shop sold 27 waffle cones. They sold 6 times as many sugar cones as waffle cones and 4 times as many wafer cones as sugar cones. How many cones did they sell total?

Waffle 27

Sugar ▯▯▯▯▯▯

Wafer ▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯▯

Math

Solve each problem using a tape diagram.

1) A store sold 47 C batteries in a day. They sold 6 as many AAA batteries as C batteries and 5 times as many AA as AAA batteries. How many batteries did they sell total?

1. _____

2. _____

3. _____

4. _____

2) Chef Ned buys 28 carrots. He buys 3 times as many potatoes as carrots and 3 times as many tomatoes as potatoes. How many vegetables did he buy all together?

5. _____

3) In one day a restaurant used 24 knives. They also used 6 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

4) In one day a restaurant used 18 knives. They also used 4 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

5) Chef Jerry buys 25 carrots. He buys 7 times as many potatoes as carrots and 6 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Answer Key

Solve each problem using a tape diagram.

Answers

1) A store sold 47 C batteries in a day. They sold 6 as many AAA batteries as C batteries and 5 times as many AA as AAA batteries. How many batteries did they sell total?

C | 47 |

AAA | | | | | | | |

AA [24 cells]

2) Chef Ned buys 28 carrots. He buys 3 times as many potatoes as carrots and 3 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots | 28 |

Potatoes | | | |

Tomatoes | | | | | | | | | |

3) In one day a restaurant used 24 knives. They also used 6 as many forks as they used knives. And 2 times as many spoons as forks. How many utensils do they use in a day?

knives | 24 |

forks | | | | | | |

spoons | | | | | | | | | | | | |

4) In one day a restaurant used 18 knives. They also used 4 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

knives | 18 |

forks | | | | |

spoons | | | | | | | | | | | | |

5) Chef Jerry buys 25 carrots. He buys 7 times as many potatoes as carrots and 6 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots | 25 |

Potatoes | | | | | | | |

Tomatoes [42 cells]

1.	**1739**
2.	**364**
3.	**456**
4.	**306**
5.	**1250**

Math   www.CommonCoreSheets.com   9   1-5 | 80 | 60 | 40 | 20 | 0 |

Solve each problem using a tape diagram.

1) On week 1 a football player jogged for 38 minutes. On week 2 he jogged for 6 times as long. On week 3 he jogged for 4 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

1. _____

2. _____

3. _____

4. _____

2) A store sold 11 C batteries in a day. They sold 5 as many AAA batteries as C batteries and 9 times as many AA as AAA batteries. How many batteries did they sell total?

5. _____

3) Chef Victor buys 24 carrots. He buys 3 times as many potatoes as carrots and 2 times as many tomatoes as potatoes. How many vegetables did he buy all together?

4) A school principal was looking over grades. In math 26 students scored a C. 3 times as many students scored a B. And 3 times as many students scored an A as scored a B. How many students scored an A, B or C?

5) In one day a restaurant used 47 knives. They also used 4 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

Solve each problem using a tape diagram.

Answers

1) On week 1 a football player jogged for 38 minutes. On week 2 he jogged for 6 times as long. On week 3 he jogged for 4 times as long as he jogged on week 2. How many minute did he jog across all 3 weeks?

Week 1 | 38 |

Week 2 | | | | | | |

Week 3 | | | | | | | | | | | | | | | | | | | | | | | | |

1. ___**1178**___

2) A store sold 11 C batteries in a day. They sold 5 as many AAA batteries as C batteries and 9 times as many AA as AAA batteries. How many batteries did they sell total?

C | |

AAA | | | | | |

AA | (long tape) |

2. ___**561**___

3) Chef Victor buys 24 carrots. He buys 3 times as many potatoes as carrots and 2 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots | 24 |

Potatoes | | | |

Tomatoes | | | | | | |

3. ___**240**___

4) A school principal was looking over grades. In math 26 students scored a C. 3 times as many students scored a B. And 3 times as many students scored an A as scored a B. How many students scored an A, B or C?

C | 26 |

B | | | |

A | | | | | | | | | |

4. ___**338**___

5) In one day a restaurant used 47 knives. They also used 4 as many forks as they used knives. And 3 times as many spoons as forks. How many utensils do they use in a day?

knives | 47 |

forks | | | | |

spoons | | | | | | | | | | | | |

5. ___**799**___

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