



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?
- 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?
- 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?

1. _____

2. _____

3. _____

4. _____

5. _____

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?

| | | | | | | | | |
|---|----|--|--|--|--|--|--|--|
| C | 34 | | | | | | | |
| B | | | | | | | | |
| A | | | | | | | | |

- 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 minutes did he jog across all 3 weeks?

| | |
|--------|----|
| Week 1 | 24 |
| Week 2 | |
| Week 3 | |

- 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?

The diagram illustrates a hierarchical tree structure with three levels of nodes. The top level is labeled 'C' and contains 4 nodes. The middle level is labeled 'AAA' and contains 8 nodes. The bottom level is labeled 'AA' and contains 16 nodes. The nodes are arranged in a grid-like fashion, with each node in a higher level branching into two nodes in the level below.

- 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 | |

Answers

1. **442**

2. **888**

3. **3212**

4. **663**

5. **336**