



Solve each problem using a tape diagram.

**Answers**

- 1) A school principal was looking over grades. In math 49 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) A store sold 39 C batteries in a day. They sold 8 as many AAA batteries as C batteries and 2 times as many AA as AAA batteries. How many batteries did they sell total?
- 3) Chef Billy buys 38 carrots. He buys 6 times as many potatoes as carrots and 6 times as many tomatoes as potatoes. How many vegetables did he buy all together?
- 4) An ice cream shop sold 32 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) On week 1 a football player jogged for 18 minutes. On week 2 he jogged for 8 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. \_\_\_\_\_

5. \_\_\_\_\_

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# Answers

- 1) A school principal was looking over grades. In math 49 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	49							
B								
A								

- 2) A store sold 39 C batteries in a day. They sold 8 as many AAA batteries as C batteries and 2 times as many AA as AAA batteries. How many batteries did they sell total?

[illegible]

- 3) Chef Billy buys 38 carrots. He buys 6 times as many potatoes as carrots and 6 times as many tomatoes as potatoes. How many vegetables did he buy all together?

Carrots	38
Potatoes	10
Tomatoes	30

- 4) An ice cream shop sold 32 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	32			
Sugar				
Wafer				

- 5) On week 1 a football player jogged for 18 minutes. On week 2 he jogged for 8 times as long. On week 3 he jogged for 9 times as long as he jogged on week 2. How many minutes did he jog across all 3 weeks?

Figure 1 is a Gantt chart illustrating the schedule of the three-week course. The chart is organized into three horizontal rows, each representing a week. The first row, labeled 'Week 1', contains 18 vertical bars of equal length, indicating 18 sessions. The second row, labeled 'Week 2', contains 10 vertical bars of equal length, indicating 10 sessions. The third row, labeled 'Week 3', contains 28 vertical bars of equal length, indicating 28 sessions. The bars are arranged in a staggered fashion, with the first bar of Week 2 starting at the same time as the second bar of Week 1, and the first bar of Week 3 starting at the same time as the third bar of Week 1. This visual representation shows the distribution of sessions across the three-week period.

1. **637**

2. **975**

3. **1634**

4. **224**

5. **1458**