

16. Brittany, Brandon, and Danielle are climbing Mount Denali. They began at an elevation of 4,000 feet. During their climb, they gained elevation at a rate of 500 feet per hour, h . Their total elevation, E , is modeled by the equation $E = 500h + 4,000$.

On the lines below, identify each part of the equation as a coefficient, variable, or term.

E : _____

500: _____

$500h$: _____

4,000: _____

17. A group of friends decided to raise money for two charities. The friends raised money individually, pooled their money, and split the total in two to share equally between the charities. The friends individually raised \$142, \$116, \$54, \$157, \$92, and \$87. Carla counted the money, divided the total in two, and determined that they could give each charity \$488.

Use estimation to show whether Carla's calculation is reasonable or not. Show all work.

18. Solving a linear equation, such as the equation below, involves the use of a property of equality or a property of operations at each step.

$$\frac{3}{2}(6 + s) - 8 = 2s - 23$$

Solve the equation for s . Show each step that you take to find the solution, and label each step with the property that justifies it.
