

Types of Equations for Application Problems

<p><u>Problems Dealing with Money and Number Sold</u></p> <ul style="list-style-type: none">• 1 Equation → the total number sold• 1 Equation → the total cost	<p>Dylan is required to sell tickets for the upcoming school play. Adult tickets cost \$15 and student tickets cost \$10. He sold 27 tickets for a total of \$330. Write a systems of equations for this problem.</p>
<p><u>Problems Dealing with 2 different costs & Totals</u></p> <ul style="list-style-type: none">• Both Equations → $\text{Cost}(x) + \text{Cost}(y) = \text{Total}$	<p>The Crimson Club is selling spirit gear for the upcoming games. Pompoms cost \$1.50 each and foam fingers cost \$4.75 each. On Tuesday they sold 4 pompoms and 5 foam fingers for a total of \$29.75. On Wednesday they so 8 pompoms and 2 foam fingers for a total of \$21.50. Write a system of equations for this problem.</p>

Write a system of equations for each application problem.

1. The cost of 5 boxes of envelopes and 5 boxes of note paper is \$25.95. Two boxes of envelopes and 6 boxes of note paper cost \$22.38.

2. Candy worth \$0.95 per pound was mixed with candy worth \$1.85 per pound to make a mixture worth \$1.45 per pound. How many pounds of each candy was used to make a 27 pound mixture?