Let ___ = ____

Writing Equations in Ax + By = C to describe real situations:

Write an equation in Ax + By = C for each situation: 1. A company will charge \$3 to ship a medium size box to China, and \$4 to ship a large box to China. Write an equation to represent the amount of boxes the company could ship if their shipping budget is 132 dollars. Define your variables: Let __ = ____ Let __ = ____ Equation: 2. Jenny is making a scrapbook of her senior year. She needs to get some pictures printed. She finds an online company that will print and send her 3x5 pictures for 20¢ each and 4x6 pictures for 30¢ each. If she is only allowed to order \$10.00 worth of pictures, write an equation to represent the amount of each size of picture she could order. Define your variables: Equation: Let __ = _____ Let __ = ____ 3. Jeff is packing a care box to send to his brother who is a soldier. He wants to send him his favorite cookies which weigh 10 oz. each and winter socks which weigh 22 oz per pair. He has been told that his box can weigh 8 pounds. Write an equation to represent the number of boxes of cookies and pairs of socks Jeff could pack for his brother. (Careful! The units must match, 1 lb = 16 oz) Define your variables: Equation: Let ___ = _____ Let _ = _____ 4. Julie is trying to lose weight. She decides to try to burn calories by walking or jogging. She finds out that walking burns an average of 5 calories per minute, and jogging burns an average of 7 calories per minute. Write and equation to show the amount of walking of jogging Julie would need to do to burn and extra 300 calories. Define your variables: Equation: Let ___ = ____