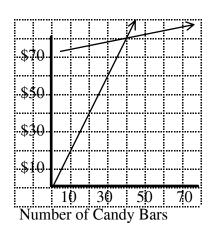
[A] 220 copies

[B] 300 copies

[C] 221 copies

[D] 301 copies

2.



Look at the graph above of the expense and income equations for a basketball fund-raiser. What are the coordinates of the break-even point?

[A] (40, 80)

[B] (20, 60)

[C] (-40, 80)

[D] (-20, 60)

- 3. Maria has invested \$1200 in her consulting business. She charges \$25 per hour for her services. Use any problem solving strategy to determine the number of hours Maria needs to work to break even.
- 4. Michal invested \$250 to start a business mowing lawns. He mows each lawn for \$15. Find the break-even point.
- 5. Suppose you invest \$2,500 in a copy machine and paper. If you charge \$0.20 a copy, how many copies must be made before you break even?

- 6. At the local ballpark, the team charges \$8.50 for each ticket and expects to make \$2400.00 in concessions. The team must pay its players \$3240.00 and pay all other workers \$2280.00. Each fan gets a free bat that costs the team \$2.50 per bat. Write the income and expense equations and find how many tickets must be sold to break even.
- 7. Mike and Kim invest \$10,000 in equipment to print yearbooks for schools. Each yearbook costs \$5.75 to print and sells for \$25. How many yearbooks must they sell before their business breaks even?
- 8. The manager of the local theater spends \$250 on programs, \$500 on advertising, and \$600 on costumes and props. He decides to charge \$7 a ticket and expects an income of \$200 from refreshments. How many tickets must be sold to break even?
- 9. Adam's soccer team needs new uniforms for next year's season. In order to finance the purchase of sixteen new uniforms, the players are asked to sell packages of popcorn for \$1.00 each. If each uniform costs thirty dollars and the profit from each package sold is \$0.25, how many packages must be sold to pay for the uniforms?
- 10. The Spanish Club is planning a fiesta to raise money. The cost of renting the room for the fiesta is \$100. To cover the cost of the room, members of the club decide to charge a fee of \$1.00 for each member and \$1.25 for each guest who is not a member. All fifty members plan to attend. How many guests must attend to cover the cost of the room?

[9] 1,920

[10] at least 40 guests