Algebra 1 Unit 7: System of Equations Word Problem Review

1. An order for 3 trees and 5 flowers costs $69. An order for 7 trees and 7 flowers costs $147. What was the cost for one tree and one flower?
2. Suppose a carnival sold 140 tickets to a circus performance and made a total of $1393. If the cost per adult ticket was $12 and the cost per child ticket was $5, how many of each type of ticket was sold?
3. I am starting a new manufacturing company which produces headphones. Each headphone costs $6.70 to produce plus the fixed wages of the employees of $45,000. If I sell the headphones for $39.90 each, how many headphones do I need to sell to break even?
4. Name three variable costs and three fixed costs a business may have.
5. You purchase 8 gallons of paint and 3 brushes for $152.50. The next day, you purchase 6 gallons of paint and 2 brushes for $113.00. How much does each gallon of paint and each brush cost?
6. At an ice cream parlor, ice cream cones cost $1.10 and sundaes cost $2.35. One day, the receipts for a total of 172 cones and sundaes were $294.20. How many cones and how many sundaes were sold?
7. At The Apple Pan, 4 burgers and 3 fires costs $26.50. 5 burgers and 5 fries cost $36.25. What is the cost for each item?
8. Suppose you bought supplies for a party. Three rolls of streamers and 15 party hats cost $30. Later, you bought 2 rolls of streamers and 4 party hats for $11. How much did each streamer and each party hat cost?
9. At McDonald’s four cheeseburgers and three medium fries have a total of 2290 calories. Six cheeseburgers and two medium fries have 2560 calories. How many calories does each item contain?
10. Suppose you start an office-cleaning service. You have spent $315 on equipment. To clean each office it costs you $4 in supplies and you charge $25 per office. How many offices must you clean to break even?

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