

Name _____

Systems Word Problems

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A large pizza at Palanzio's Pizzeria costs \$6.80 plus \$0.90 for each topping. The cost of a large cheese pizza at Guido's Pizza is \$7.30 plus \$0.65 for each topping. How many toppings need to be added to a large cheese pizza from Palanzio's Pizzeria and Guido's Pizza in order for the pizzas to cost the same, not including tax?

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On Monday Joe bought 10 cups of coffee and 5 doughnuts for his office at the cost of \$16.50. It turns out that the doughnuts were more popular than the coffee. On Tuesday he bought 5 cups of coffee and 10 doughnuts for a total of \$14.25. How much was each cup of coffee?

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If Jane has 36 coins totaling \$3.00, and the coins are all nickels and quarters, how many of each coin does she have?

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Two angles are complementary. The larger angle is 3 degrees less than twice the measure of the smaller angle. Find the measure of each angle.

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Sally's \$1800 savings is in two accounts. Her total interest for the year was \$93 from one account earning 6% interest and another earning 3% interest. How much does she have in each account?

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Molly wants to make a 16% sugar solution. She has already poured 6 liters of a 10% sugar solution into a beaker. How many liters of a 25% sugar solution must she add to this to create the desired mixture?

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A passenger train left Washington traveling north 13 hours before a cattle train. The cattle train traveled in the opposite direction going 30 mph slower than the passenger train for five hours after which time the trains were 1460 miles apart. What was the passenger train's speed?

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An aircraft carrier left the Dane Pier and traveled south at an average speed of 20 km/h. A container ship left one hour later and traveled in the same direction but with an average speed of 24 km/h. Find the number of hours the aircraft carrier traveled before the container ship caught up.