Mixture Problems – Day 4 Unit 5: Real World Applications

Solve each question. Round your answer to the nearest hundredth when needed.
1. An acid solution was made by mixing 8 L of a 35% acid solution and 4 L of a 5% acid solution. Find the
concentration of the new mixture.
in Branco in the consideration of the control of th
2. 4 lbs. of walnuts which cost \$6/lbs. were combined with 8 lbs. of peanuts which cost \$9/lbs. Find the
cost per lbs. of the mixture.
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3. For her birthday party Heather mixed together 9 gal. of Brand A fruit punch and 10 gal. of Brand B.
Brand A contains 54% fruit juice and Brand B contains 16% fruit juice. What percent of the mixture is
fruit juice? I and up a war with green transfer for the second payer arms and success to probably and bifud of LCD
solsofteds in mescalaine talachieve this soil with Nowclay and soil with 20% stop, Hess mustinitised as the
should you let the second of t
4. 16 kg of mixed nuts containing 65% peanuts were mixed with 20 kg of another kind of mixed nuts that
contain 20% peanuts. What percent of the new mixture is peanuts?
which cost \$4/i.g. find the number of kg of peature and spices required to make 12 kg of Junny's.
5. How many lbs. of sliced peaches what cost \$3/lbs. must be added to 2 lbs. of sliced bananas which
cost \$9/lbs. to make fruit salad which costs \$4/lbs.?
To be and X seas 14 by says of caxes note that contain of % decauts. To make their product this build not said A mared a for which contain is it meads from Beand Review on the Court 70 to
6. How much soil with 42% clay do you need to add to 8 ft^3 of soil with 54% clay in order to make a soil with 50% clay?
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7. How any lbs. mixed nuts that contain 62% peanuts must Heather add to 8 lbs. of mixed nuts that contain 32% peanuts to make a mixture with 46% peanuts?
8. How many o. of a metal containing 86% platinum must be combined with 12 oz. of a metal containing
38% platinum to form an alloy containing 54% platinum?
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9. Alberto made a nut mixture that contains 45% peanuts by mixing together 9 kg of mixed nuts that
contain 70% peanuts and 15 kg of a different brand of mixed nuts. The second brand of mixed nuts
contained what percent peanuts?

.0. What is the price per oz. of Arabica coffee beans if 4 oz. were mixed with 8 oz. of Robusta coffee beans which cost \$5/oz. to make 12 oz. of Lea's Premium Coffee Blend which costs \$8/oz.?
11. Kari mixed together 6 gal. of Brand A fruit drink ad 7 gal. of apple juice. Find the percent of fruit junce n Brand A if the mixture contained 70% fruit juice.
12. Joe and his brother mixed together some soil and some sand to make 5 ft^3 of soil with a 90% sand content. They used 4 ft^3 of sand and 1 ft^3 of a soil they purchased. What was the sand content of the soil they purchased?
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13. To build the garden of your dreams you need $10ft^3$ of soil containing 36% clay. You have two type of soil you can combine to achieve this: soil with 37% clay and soil with 27% clay. How much of each schoold you use?
14. Jimmy's Red Hot Peanuts which cost \$3/kg are made by combining peanuts which cost \$1/kg with spices which cost \$4/kg. find the number of kg of peanuts and spices required to make 12 kg of Jimm Red Hot Peanuts.
L5. Brand X sells 14 kg bags of mixed nuts that contain 67% peanuts. To make their product they combine Brand A mixed nuts which contain 63% peanuts and Brand B mixed nuts which contain 70% peanuts. How much of each do they need to use?
combine Brand A mixed nuts which contain 63% peanuts and Brand B mixed nuts which contain 70%
combine Brand A mixed nuts which contain 63% peanuts and Brand B mixed nuts which contain 70% peanuts. How much of each do they need to use? 16. To build the garden of your dreams you need 15 yd^3 of soil containing 18% silt. You have two type of soil you can combine to achieve this: soil with 10% silt and soil with 30% silt. How much of each so