Name_____

Assignment

Date_____ Period____

1) 1 oz of bleached flour which costs $8/oz was combined with 5 oz of unbleached flour which costs $2/oz. Find the cost per oz of the mixture.

2) 15 lbs. of mixed nuts containing 60% peanuts were mixed with 10 lbs. of another kind of mixed nuts that contain 65% peanuts. Peanuts are what percent of the new mixture?

3) 8 fl. oz. of a 50% acid solution was mixed with 2 fl. oz. of a 20% acid solution. Find the concentration of the new mixture.

4) For her birthday party Kristin mixed together 4 L of Brand A fruit punch and 6 L of Brand B. Brand A contains 45% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

5) 16 lbs. of mixed nuts containing 28% peanuts were mixed with 8 lbs. of another kind of mixed nuts that contain 16% peanuts. What percent of the new mixture is peanuts?

6) 6 L of a 4% alcohol solution was mixed with 2 L of a 52% alcohol solution. What is the concentration of the mixture?

7) For his birthday party Julio mixed together 8 gal. of Brand A fruit punch and 2 gal. of Brand B. Brand A contains 5% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

8) For her birthday party Maria mixed together 8 gal. of Brand A fruit punch and 2 gal. of Brand B. Brand A contains 58% fruit juice and Brand B contains 8% fruit juice. What percent of the mixture is fruit juice?

9) A metal alloy weighing 3 mg and containing 90% copper is melted and mixed with 10 mg of a different alloy which contains 25% copper. What percent of the resulting alloy is copper?

10) 21 oz of vegetable oil was made by combining 7 oz of soybean oil which costs $4/oz with 14 oz of canola oil which costs $1/oz. Find the cost per oz of the mixture.

11) 5 oz. of mixed nuts containing 67% peanuts were mixed with 18 oz. of another kind of mixed nuts that contain 44% peanuts. What percent of the new mixture is peanuts?

12) 9 kg of mixed nuts containing 70% peanuts were mixed with 6 kg of another kind of mixed nuts that contain 30% peanuts. Peanuts are what percent of the new mixture?

13) 4 lb of cane molasses which costs $4/lb were combined with 2 lb of beet molasses which costs $1/lb. Find the cost per lb of the mixture.

14) For his birthday party Ryan mixed together 7 gal. of Brand A fruit punch and 2 gal. of Brand B. Brand A contains 46% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

15) For his birthday party Carlos mixed together 4 L of Brand A fruit punch and 8 L of Brand B. Brand A contains 8% fruit juice and Brand B contains 26% fruit juice. What percent of the mixture is fruit juice?

16) For her birthday party Micaela mixed together 7 L of Brand A fruit punch and 3 L of Brand B. Brand A contains 10% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

17) 20 kg of Brand M Cinnamon was made by combining 6 kg of Indonesian cinnamon which costs $19/kg with 14 kg of Thai cinnamon which costs $9/kg. Find the cost per kg of the mixture.

18) 18 oz of Shanice's Premium Molasses was made by combining 6 oz of cane molasses which costs $4/oz with 12 oz of beet molasses which costs $1/oz. Find the cost per oz of the mixture.

19) 10 lbs. of mixed nuts containing 57% peanuts were mixed with 6 lbs. of another kind of mixed nuts that contain 33% peanuts. What percent of the new mixture is peanuts?

20) 10 yd^3 of soil containing 54% silt was mixed into 4 yd^3 of soil containing 19% silt. What is the silt content of the mixture?

21) 9 ml of a 15% alcohol solution was mixed with 6 ml of a 40% alcohol solution. Find the concentration of the new mixture.

22) For her birthday party Sumalee mixed together 9 gal. of Brand A fruit punch and 7 gal. of Brand B. Brand A contains 36% fruit juice and Brand B contains 52% fruit juice. What percent of the mixture is fruit juice?

23) 7 gal. of a 35% alcohol solution was mixed with 8 gal. of a 20% alcohol solution. What is the concentration of the mixture?

24) 5 yd^3 of soil containing 40% sand was mixed into 7 yd^3 of soil containing 28% sand. What is the sand content of the mixture?

Answers to Assignment (ID: 1)

1) $3/oz
2) 62%
3) 44%
4) 24%
5) 24%
6) 16%
7) 10%
8) 48%
9) 40%
10) $2/oz
11) 49%
12) 54%
13) $3/lb
14) 38%
15) 20%
16) 16%
17) $12/kg
18) $2/oz
19) 48%
20) 44%
21) 25%
22) 43%
23) 27%
24) 33%

Name_____

Assignment

Date_____ Period____

1) 6 m^3 of soil containing 50% sand was mixed into 7 m^3 of soil containing 37% sand. What is the sand content of the mixture?

2) For his birthday party Wilbur mixed together 7 gal. of Brand A fruit punch and 4 gal. of Brand B. Brand A contains 38% fruit juice and Brand B contains 27% fruit juice. What percent of the mixture is fruit juice?

3) A metal alloy weighing 3 kg and containing 83% iron is melted and mixed with 10 kg of a different alloy which contains 70% iron. What percent of the resulting alloy is iron?

4) For his birthday party Paul mixed together 2 gal. of Brand A fruit punch and 10 gal. of Brand B. Brand A contains 58% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

5) 4 lb of Mofor's special coffee blend was made by combining 3 lb of brand X coffee which costs $14/lb with 1 lb of brand Y coffee which costs $6/lb. Find the cost per lb of the mixture.

6) 5 lbs. of mixed nuts containing 48% peanuts were mixed with 6 lbs. of another kind of mixed nuts that contain 26% peanuts. What percent of the new mixture is peanuts?

7) A metal alloy weighing 4 lb. and containing 75% copper is melted and mixed with 6 lb. of a different alloy which contains 20% copper. What percent of the resulting alloy is copper?

8) 9 m^3 of soil containing 50% sand was mixed into 1 m^3 of soil containing 30% sand. What is the sand content of the mixture?

9) For her birthday party Jenny mixed together 6 L of Brand A fruit punch and 4 L of Brand B. Brand A contains 50% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

10) 6 fl. oz. of a 50% acid solution was mixed with 10 fl. oz. of a 90% acid solution. What is the concentration of the mixture?

11) For her birthday party Jessica mixed together 3 gal. of Brand A fruit punch and 6 gal. of Brand B. Brand A contains 34% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

12) 10 L of a 56% acid solution was mixed with 5 L of a 26% acid solution. Find the concentration of the new mixture.

13) 15 kg of Jacob's Premium Coffee Blend was made by combining 5 kg of arabica coffee beans which cost $12/kg with 10 kg of robusta coffee beans which cost $6/kg. Find the cost per kg of the mixture.

14) 12 gal. of a 60% saline solution was mixed with 6 gal. of a 30% saline solution. What is the concentration of the mixture?

15) 15 lb of Kayla's Red Hot Peanuts was made by combining 10 lb of peanuts which cost $1/lb with 5 lb of spices which cost $4/lb. Find the cost per lb of the mixture.

16) A metal alloy weighing 3 kg and containing 20% silver is melted and mixed with 12 kg of a different alloy which contains 70% silver. What percent of the resulting alloy is silver?

17) 6 qt. of a 35% acid solution was mixed with 9 qt. of a 50% acid solution. What is the concentration of the mixture?

18) For her birthday party Elisa mixed together 3 L of Brand A fruit punch and 2 L of Brand B. Brand A contains 55% fruit juice and Brand B contains 20% fruit juice. What percent of the mixture is fruit juice?

19) A metal alloy weighing 1 oz. and containing 60% platinum is melted and mixed with 4 oz. of a different alloy which contains 80% platinum. What percent of the resulting alloy is platinum?

20) 16 lbs. of mixed nuts containing 32% peanuts were mixed with 4 lbs. of another kind of mixed nuts that contain 62% peanuts. What percent of the new mixture is peanuts?

21) An acid solution was made by mixing 6 gal. of a 48% acid solution and 11 gal. of a 14% acid solution. What is the concentration of the mixture?

22) For his birthday party Stefan mixed together 6 gal. of Brand A fruit punch and 9 gal. of Brand B. Brand A contains 16% fruit juice and Brand B contains 6% fruit juice. What percent of the mixture is fruit juice?

23) A metal alloy weighing 2 mg and containing 18% copper is melted and mixed with 8 mg of a different alloy which contains 68% copper. What percent of the resulting alloy is copper?

24) A metal alloy weighing 2 oz. and containing 70% copper is melted and mixed with 3 oz. of a different alloy which contains 30% copper. What percent of the resulting alloy is copper?

Answers to Assignment (ID: 2)

1) 43%
2) 34%
3) 73%
4) 18%
5) $12/lb
6) 36%
7) 42%
8) 48%
9) 34%
10) 75%
11) 18%
12) 46%
13) $8/kg
14) 50%
15) $2/lb
16) 60%
17) 44%
18) 41%
19) 76%
20) 38%
21) 26%
22) 10%
23) 58%
24) 46%

Name_____

Assignment

Date_____ Period____

1) 4 lbs. of mixed nuts containing 28% peanuts were mixed with 16 lbs. of another kind of mixed nuts that contain 33% peanuts. What percent of the new mixture is peanuts?

2) A saline solution was made by mixing 2 fl. oz. of a 50% saline solution and 3 fl. oz. of a 40% saline solution. What is the concentration of the mixture?

3) 6 fl. oz. of a 10% saline solution was mixed with 9 fl. oz. of a 50% saline solution. What is the concentration of the mixture?

4) For his birthday party John mixed together 9 gal. of Brand A fruit punch and 6 gal. of Brand B. Brand A contains 50% fruit juice and Brand B contains 15% fruit juice. What percent of the mixture is fruit juice?

5) A metal alloy weighing 12 kg and containing 70% copper is melted and mixed with 6 kg of a different alloy which contains 25% copper. What percent of the resulting alloy is copper?

6) 6 L of a 40% saline solution was mixed with 8 L of a 54% saline solution. What is the concentration of the mixture?

7) For his birthday party Ndiba mixed together 8 gal. of Brand A fruit punch and 4 gal. of Brand B. Brand A contains 40% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

8) 8 oz of arugula which costs \$2/oz were combined with 4 oz of spinach which costs \$5/oz. Find the cost per oz of the mixture.

9) 3 lb of vegetable oil was made by combining 2 lb of soybean oil which costs \$4/lb with 1 lb of canola oil which costs \$1/lb. Find the cost per lb of the mixture.

10) 6 lb of James' special coffee blend was made by combining 1 lb of brand X coffee which costs \$24/lb with 5 lb of brand Y coffee which costs \$6/lb. Find the cost per lb of the mixture.

11) 2 yd^3 of soil containing 13% silt was mixed into 9 yd^3 of soil containing 46% silt. What is the silt content of the mixture?

12) 12 oz. of mixed nuts containing 30% peanuts were mixed with 8 oz. of another kind of mixed nuts that contain 55% peanuts. What percent of the new mixture is peanuts?

13) 8 lbs. of mixed nuts containing 40% peanuts were mixed with 12 lbs. of another kind of mixed nuts that contain 45% peanuts. Peanuts are what percent of the new mixture?

14) For his birthday party Eugene mixed together 9 L of Brand A fruit punch and 2 L of Brand B. Brand A contains 6% fruit juice and Brand B contains 39% fruit juice. What percent of the mixture is fruit juice?

15) 12 lb of premium salad mix was made by combining 4 lb of arugula which costs $3/lb with 8 lb of spinach which costs $6/lb. Find the cost per lb of the mixture.

16) 6 lbs. of mixed nuts containing 55% peanuts were mixed with 4 lbs. of another kind of mixed nuts that contain 45% peanuts. What percent of the new mixture is peanuts?

17) 3 oz of premium salad mix was made by combining 2 oz of arugula which costs $5/oz with 1 oz of spinach which costs $2/oz. Find the cost per oz of the mixture.

18) For her birthday party Danielle mixed together 8 gal. of Brand A fruit punch and 2 gal. of Brand B. Brand A contains 50% fruit juice and Brand B contains 40% fruit juice. What percent of the mixture is fruit juice?

19) A metal alloy weighing 7 oz. and containing 85% nickel is melted and mixed with 5 oz. of a different alloy which contains 25% nickel. What percent of the resulting alloy is nickel?

20) 7 L of a 50% acid solution was mixed with 3 L of a 20% acid solution. What is the concentration of the mixture?

21) 6 ft^3 of soil containing 35% clay was mixed into 4 ft^3 of soil containing 40% clay. What is the clay content of the mixture?

22) A sugar solution was made by mixing 12 gal. of a 55% sugar solution and 3 gal. of a 45% sugar solution. Find the concentration of the new mixture.

23) 5 yd^3 of soil containing 10% silt was mixed into 2 yd^3 of soil containing 45% silt. What is the silt content of the mixture?

24) A metal alloy weighing 1 mg and containing 55% nickel is melted and mixed with 4 mg of a different alloy which contains 75% nickel. What percent of the resulting alloy is nickel?

Answers to Assignment (ID: 3)

1) 32%
2) 44%
3) 34%
4) 36%
5) 55%
6) 48%
7) 30%
8) $3/oz
9) $3/lb
10) $9/lb
11) 40%
12) 40%
13) 43%
14) 12%
15) $5/lb
16) 51%
17) $4/oz
18) 48%
19) 60%
20) 41%
21) 37%
22) 53%
23) 20%
24) 71%

Name_____

Assignment

Date_____ Period____

1) For her birthday party Kali mixed together 3 gal. of Brand A fruit punch and 10 gal. of Brand B. Brand A contains 21% fruit juice and Brand B contains 60% fruit juice. What percent of the mixture is fruit juice?

2) 4 gal. of a 88% alcohol solution was mixed with 2 gal. of a 16% alcohol solution. Find the concentration of the new mixture.

3) A metal alloy weighing 2 mg and containing 40% copper is melted and mixed with 8 mg of a different alloy which contains 5% copper. What percent of the resulting alloy is copper?

4) 16 kg of mixed nuts containing 55% peanuts were mixed with 4 kg of another kind of mixed nuts that contain 75% peanuts. Peanuts are what percent of the new mixture?

5) 12 kg of mixed nuts containing 74% peanuts were mixed with 20 kg of another kind of mixed nuts that contain 50% peanuts. What percent of the new mixture is peanuts?

6) 5 ml of a 34% saline solution was mixed with 11 ml of a 66% saline solution. What is the concentration of the mixture?

7) 6 qt. of a 40% alcohol solution was mixed with 3 qt. of a 55% alcohol solution. What is the concentration of the mixture?

8) 10 fl. oz. of a 10% acid solution was mixed with 6 fl. oz. of a 90% acid solution. Find the concentration of the new mixture.

9) 3 ft^3 of soil containing 50% sand was mixed into 7 ft^3 of soil containing 30% sand. What is the sand content of the mixture?

10) A sugar solution was made by mixing 6 L of a 80% sugar solution and 2 L of a 40% sugar solution. What is the concentration of the mixture?

11) For his birthday party Perry mixed together 7 gal. of Brand A fruit punch and 3 gal. of Brand B. Brand A contains 50% fruit juice and Brand B contains 20% fruit juice. What percent of the mixture is fruit juice?

12) 3 L of a 45% alcohol solution was mixed with 4 L of a 87% alcohol solution. Find the concentration of the new mixture.

13) A metal alloy weighing 7 mg and containing 85% platinum is melted and mixed with 3 mg of a different alloy which contains 25% platinum. What percent of the resulting alloy is platinum?

14) A metal alloy weighing 4 lb. and containing 85% copper is melted and mixed with 1 lb. of a different alloy which contains 30% copper. What percent of the resulting alloy is copper?

15) 8 fl. oz. of a 35% sugar solution was mixed with 4 fl. oz. of a 50% sugar solution. What is the concentration of the mixture?

16) 3 m^3 of soil containing 56% sand was mixed into 7 m^3 of soil containing 26% sand. What is the sand content of the mixture?

17) A metal alloy weighing 4 oz. and containing 90% platinum is melted and mixed with 12 oz. of a different alloy which contains 30% platinum. What percent of the resulting alloy is platinum?

18) 4 qt. of a 32% alcohol solution was mixed with 8 qt. of a 35% alcohol solution. Find the concentration of the new mixture.

19) 8 oz of bleached flour which costs $7/oz were combined with 12 oz of unbleached flour which costs $2/oz. Find the cost per oz of the mixture.

20) A metal alloy weighing 8 kg and containing 40% gold is melted and mixed with 2 kg of a different alloy which contains 20% gold. What percent of the resulting alloy is gold?

21) 9 kg of mixed nuts containing 30% peanuts were mixed with 6 kg of another kind of mixed nuts that contain 40% peanuts. Peanuts are what percent of the new mixture?

22) A metal alloy weighing 5 oz. and containing 10% iron is melted and mixed with 11 oz. of a different alloy which contains 90% iron. What percent of the resulting alloy is iron?

23) 2 oz of copper which costs $3/oz were combined with 1 oz of tin which costs $6/oz. Find the cost per oz of the mixture.

24) 9 kg of mixed nuts containing 36% peanuts were mixed with 11 kg of another kind of mixed nuts that contain 56% peanuts. What percent of the new mixture is peanuts?

Answers to Assignment (ID: 4)

1) 51%
2) 64%
3) 12%
4) 59%
5) 59%
6) 56%
7) 45%
8) 40%
9) 36%
10) 70%
11) 41%
12) 69%
13) 67%
14) 74%
15) 40%
16) 35%
17) 45%
18) 34%
19) $4/oz
20) 36%
21) 34%
22) 65%
23) $4/oz
24) 47%

Name_____

Assignment

Date_____ Period____

1) A metal alloy weighing 1 oz. and containing 85% gold is melted and mixed with 9 oz. of a different alloy which contains 35% gold. What percent of the resulting alloy is gold?

2) 3 oz of mixed nuts was made by combining 1 oz of walnuts which cost $10/oz with 2 oz of peanuts which cost $7/oz. Find the cost per oz of the mixture.

3) 8 lbs. of mixed nuts containing 60% peanuts were mixed with 12 lbs. of another kind of mixed nuts that contain 50% peanuts. Peanuts are what percent of the new mixture?

4) A metal alloy weighing 9 kg and containing 50% silver is melted and mixed with 1 kg of a different alloy which contains 20% silver. What percent of the resulting alloy is silver?

5) 12 kg of mixed nuts was made by combining 8 kg of walnuts which cost $8/kg with 4 kg of peanuts which cost $11/kg. Find the cost per kg of the mixture.

6) 5 oz. of mixed nuts containing 22% peanuts were mixed with 15 oz. of another kind of mixed nuts that contain 42% peanuts. What percent of the new mixture is peanuts?

7) 3 m^3 of soil containing 16% silt was mixed into 7 m^3 of soil containing 26% silt. What is the silt content of the mixture?

8) 5 oz of bleached flour which costs $3/oz were combined with 15 oz of unbleached flour which costs $7/oz. Find the cost per oz of the mixture.

9) A metal alloy weighing 10 oz. and containing 22% gold is melted and mixed with 2 oz. of a different alloy which contains 58% gold. What percent of the resulting alloy is gold?

10) 2 qt. of a 28% acid solution was mixed with 6 qt. of a 4% acid solution. Find the concentration of the new mixture.

11) 12 qt. of a 80% alcohol solution was mixed with 2 qt. of a 52% alcohol solution. Find the concentration of the new mixture.

12) A metal alloy weighing 7 oz. and containing 36% copper is melted and mixed with 9 oz. of a different alloy which contains 20% copper. What percent of the resulting alloy is copper?

13) For her birthday party Shawna mixed together 4 L of Brand A fruit punch and 8 L of Brand B. Brand A contains 22% fruit juice and Brand B contains 16% fruit juice. What percent of the mixture is fruit juice?

14) An acid solution was made by mixing 6 fl. oz. of a 30% acid solution and 9 fl. oz. of a 25% acid solution. What is the concentration of the mixture?

15) An acid solution was made by mixing 1 L of a 10% acid solution and 7 L of a 82% acid solution. What is the concentration of the mixture?

16) 2 qt. of a 33% saline solution was mixed with 3 qt. of a 58% saline solution. Find the concentration of the new mixture.

17) 2 gal. of a 70% sugar solution was mixed with 8 gal. of a 85% sugar solution. Find the concentration of the new mixture.

18) 8 yd^3 of soil containing 40% silt was mixed into 2 yd^3 of soil containing 20% silt. What is the silt content of the mixture?

19) 20 oz. of mixed nuts containing 68% peanuts were mixed with 4 oz. of another kind of mixed nuts that contain 62% peanuts. What percent of the new mixture is peanuts?

20) 8 lbs. of mixed nuts containing 70% peanuts were mixed with 16 lbs. of another kind of mixed nuts that contain 25% peanuts. What percent of the new mixture is peanuts?

21) A sugar solution was made by mixing 12 gal. of a 28% sugar solution and 3 gal. of a 88% sugar solution. Find the concentration of the new mixture.

22) 9 m^3 of soil containing 35% sand was mixed into 6 m^3 of soil containing 10% sand. What is the sand content of the mixture?

23) A metal alloy weighing 6 oz. and containing 54% nickel is melted and mixed with 2 oz. of a different alloy which contains 6% nickel. What percent of the resulting alloy is nickel?

24) 6 lb of bronze was made by combining 5 lb of copper which costs \$3/lb with 1 lb of tin which costs \$9/lb. Find the cost per lb of the mixture.

Answers to Assignment (ID: 5)

1) 40%
2) $8/oz
3) 54%
4) 47%
5) $9/kg
6) 37%
7) 23%
8) $6/oz
9) 28%
10) 10%
11) 76%
12) 27%
13) 18%
14) 27%
15) 73%
16) 48%
17) 82%
18) 36%
19) 67%
20) 40%
21) 40%
22) 25%
23) 42%
24) $4/lb

Name_____

Assignment

Date_____ Period____

1) 13 kg of mixed nuts containing 40% peanuts were mixed with 7 kg of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

2) 3 L of a 40% sugar solution was mixed with 12 L of a 10% sugar solution. What is the concentration of the mixture?

3) 9 fl. oz. of a 20% saline solution was mixed with 1 fl. oz. of a 70% saline solution. Find the concentration of the new mixture.

4) 3 ft^3 of soil containing 18% sand was mixed into 1 ft^3 of soil containing 58% sand. What is the sand content of the mixture?

5) A metal alloy weighing 3 kg and containing 50% copper is melted and mixed with 9 kg of a different alloy which contains 46% copper. What percent of the resulting alloy is copper?

6) 3 L of a 70% sugar solution was mixed with 1 L of a 30% sugar solution. Find the concentration of the new mixture.

7) 23 kg of vegetable oil was made by combining 14 kg of soybean oil which costs \$1/kg with 9 kg of canola oil which costs \$4/kg. Find the cost per kg of the mixture.

8) 3 qt. of a 60% saline solution was mixed with 2 qt. of a 45% saline solution. Find the concentration of the new mixture.

9) 4 qt. of a 75% alcohol solution was mixed with 10 qt. of a 40% alcohol solution. Find the concentration of the new mixture.

10) A metal alloy weighing 5 lb. and containing 32% platinum is melted and mixed with 3 lb. of a different alloy which contains 8% platinum. What percent of the resulting alloy is platinum?

11) A saline solution was made by mixing 4 ml of a 40% saline solution and 6 ml of a 5% saline solution. Find the concentration of the new mixture.

12) 4 ft^3 of soil containing 20% sand was mixed into 2 ft^3 of soil containing 14% sand. What is the sand content of the mixture?

13) A saline solution was made by mixing 6 fl. oz. of a 10% saline solution and 2 fl. oz. of a 70% saline solution. Find the concentration of the new mixture.

14) 12 oz of vegetable oil was made by combining 4 oz of soybean oil which costs \$1/oz with 8 oz of canola oil which costs \$4/oz. Find the cost per oz of the mixture.

15) 1 yd^3 of soil containing 25% silt was mixed into 2 yd^3 of soil containing 40% silt. What is the silt content of the mixture?

16) 6 oz. of mixed nuts containing 34% peanuts were mixed with 9 oz. of another kind of mixed nuts that contain 54% peanuts. Peanuts are what percent of the new mixture?

17) A metal alloy weighing 11 mg and containing 40% copper is melted and mixed with 4 mg of a different alloy which contains 85% copper. What percent of the resulting alloy is copper?

18) 6 kg of Kim's Premium Molasses was made by combining 2 kg of cane molasses which costs $4/kg with 4 kg of beet molasses which costs $1/kg. Find the cost per kg of the mixture.

19) A metal alloy weighing 4 kg and containing 40% copper is melted and mixed with 6 kg of a different alloy which contains 70% copper. What percent of the resulting alloy is copper?

20) 9 oz of Brand M Cinnamon was made by combining 3 oz of Indonesian cinnamon which costs $13/oz with 6 oz of Thai cinnamon which costs $10/oz. Find the cost per oz of the mixture.

21) A metal alloy weighing 8 kg and containing 65% nickel is melted and mixed with 2 kg of a different alloy which contains 35% nickel. What percent of the resulting alloy is nickel?

22) 5 lb of mixed nuts was made by combining 1 lb of walnuts which cost $2/lb with 4 lb of peanuts which cost $7/lb. Find the cost per lb of the mixture.

23) 12 kg of mixed nuts containing 25% peanuts were mixed with 18 kg of another kind of mixed nuts that contain 45% peanuts. What percent of the new mixture is peanuts?

24) For her birthday party Nicole mixed together 7 L of Brand A fruit punch and 3 L of Brand B. Brand A contains 10% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

Answers to Assignment (ID: 6)

1) 47%
2) 16%
3) 25%
4) 28%
5) 47%
6) 60%
7) $2.17/kg
8) 54%
9) 50%
10) 23%
11) 19%
12) 18%
13) 25%
14) $3/oz
15) 35%
16) 46%
17) 52%
18) $2/kg
19) 58%
20) $11/oz
21) 59%
22) $6/lb
23) 37%
24) 16%

Name_____

Assignment

Date_____ Period____

1) An alcohol solution was made by mixing 9 gal. of a 70% alcohol solution and 6 gal. of a 20% alcohol solution. Find the concentration of the new mixture.

2) 12 gal. of a 28% acid solution was mixed with 8 gal. of a 18% acid solution. Find the concentration of the new mixture.

3) A metal alloy weighing 2 lb. and containing 10% platinum is melted and mixed with 9 lb. of a different alloy which contains 54% platinum. What percent of the resulting alloy is platinum?

4) 20 oz. of mixed nuts containing 35% peanuts were mixed with 5 oz. of another kind of mixed nuts that contain 70% peanuts. What percent of the new mixture is peanuts?

5) 8 ft^3 of soil containing 15% silt was mixed into 2 ft^3 of soil containing 35% silt. What is the silt content of the mixture?

6) 2 gal. of a 45% acid solution was mixed with 8 gal. of a 5% acid solution. Find the concentration of the new mixture.

7) 4 yd^3 of soil containing 52% silt was mixed into 1 yd^3 of soil containing 32% silt. What is the silt content of the mixture?

8) A metal alloy weighing 9 mg and containing 79% copper is melted and mixed with 3 mg of a different alloy which contains 67% copper. What percent of the resulting alloy is copper?

9) 4 L of a 10% sugar solution was mixed with 6 L of a 80% sugar solution. Find the concentration of the new mixture.

10) 18 kg of mixed nuts containing 70% peanuts were mixed with 9 kg of another kind of mixed nuts that contain 46% peanuts. What percent of the new mixture is peanuts?

11) 6 ft^3 of soil containing 54% clay was mixed into 3 ft^3 of soil containing 24% clay. What is the clay content of the mixture?

12) 2 m^3 of soil containing 46% sand was mixed into 9 m^3 of soil containing 24% sand. What is the sand content of the mixture?

13) 12 oz of copper which costs $5/oz were combined with 8 oz of tin which costs $10/oz. Find the cost per oz of the mixture.

14) 1 yd^3 of soil containing 40% clay was mixed into 9 yd^3 of soil containing 10% clay. What is the clay content of the mixture?

15) 6 oz of Krystal's special coffee blend was made by combining 2 oz of brand X coffee which costs $7/oz with 4 oz of brand Y coffee which costs $16/oz. Find the cost per oz of the mixture.

16) 1 qt. of a 21% sugar solution was mixed with 2 qt. of a 81% sugar solution. Find the concentration of the new mixture.

17) 6 yd^3 of soil containing 58% clay was mixed into 9 yd^3 of soil containing 38% clay. What is the clay content of the mixture?

18) 2 L of a 60% alcohol solution was mixed with 1 L of a 90% alcohol solution. What is the concentration of the mixture?

19) 6 ft^3 of soil containing 30% silt was mixed into 9 ft^3 of soil containing 50% silt. What is the silt content of the mixture?

20) 8 ml of a 85% saline solution was mixed with 2 ml of a 30% saline solution. What is the concentration of the mixture?

21) A sugar solution was made by mixing 4 ml of a 64% sugar solution and 12 ml of a 72% sugar solution. What is the concentration of the mixture?

22) 3 L of a 20% saline solution was mixed with 12 L of a 10% saline solution. What is the concentration of the mixture?

23) A saline solution was made by mixing 2 ml of a 15% saline solution and 8 ml of a 85% saline solution. What is the concentration of the mixture?

24) For her birthday party Emily mixed together 5 gal. of Brand A fruit punch and 10 gal. of Brand B. Brand A contains 25% fruit juice and Brand B contains 40% fruit juice. What percent of the mixture is fruit juice?

Answers to Assignment (ID: 7)

1) 50%
2) 24%
3) 46%
4) 42%
5) 19%
6) 13%
7) 48%
8) 76%
9) 52%
10) 62%
11) 44%
12) 28%
13) $7/oz
14) 13%
15) $13/oz
16) 61%
17) 46%
18) 70%
19) 42%
20) 74%
21) 70%
22) 12%
23) 71%
24) 35%

Name_____

Assignment

Date_____ Period____

1) For her birthday party Ashley mixed together 9 gal. of Brand A fruit punch and 3 gal. of Brand B. Brand A contains 5% fruit juice and Brand B contains 25% fruit juice. What percent of the mixture is fruit juice?

2) For her birthday party Chelsea mixed together 4 L of Brand A fruit punch and 8 L of Brand B. Brand A contains 40% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

3) 20 lbs. of mixed nuts containing 15% peanuts were mixed with 5 lbs. of another kind of mixed nuts that contain 55% peanuts. Peanuts are what percent of the new mixture?

4) For his birthday party Daniel mixed together 2 gal. of Brand A fruit punch and 3 gal. of Brand B. Brand A contains 40% fruit juice and Brand B contains 55% fruit juice. What percent of the mixture is fruit juice?

5) 6 kg of mixed nuts containing 48% peanuts were mixed with 10 kg of another kind of mixed nuts that contain 32% peanuts. What percent of the new mixture is peanuts?

6) 7 m^3 of soil containing 50% silt was mixed into 3 m^3 of soil containing 20% silt. What is the silt content of the mixture?

7) For his birthday party Trevon mixed together 10 gal. of Brand A fruit punch and 4 gal. of Brand B. Brand A contains 37% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

8) For her birthday party Shanice mixed together 6 L of Brand A fruit punch and 2 L of Brand B. Brand A contains 30% fruit juice and Brand B contains 50% fruit juice. What percent of the mixture is fruit juice?

9) A saline solution was made by mixing 12 fl. oz. of a 50% saline solution and 8 fl. oz. of a 40% saline solution. What is the concentration of the mixture?

10) For his birthday party Arjun mixed together 3 gal. of Brand A fruit punch and 2 gal. of Brand B. Brand A contains 50% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

11) An alcohol solution was made by mixing 4 L of a 20% alcohol solution and 12 L of a 60% alcohol solution. Find the concentration of the new mixture.

12) A metal alloy weighing 4 mg and containing 50% gold is melted and mixed with 1 mg of a different alloy which contains 60% gold. What percent of the resulting alloy is gold?

13) A metal alloy weighing 12 kg and containing 80% nickel is melted and mixed with 4 kg of a different alloy which contains 20% nickel. What percent of the resulting alloy is nickel?

14) 4 yd^3 of soil containing 40% sand was mixed into 10 yd^3 of soil containing 33% sand. What is the sand content of the mixture?

15) 2 lb of walnuts which cost $7/lb were combined with 3 lb of peanuts which cost $12/lb. Find the cost per lb of the mixture.

16) 7 fl. oz. of a 64% acid solution was mixed with 5 fl. oz. of a 16% acid solution. Find the concentration of the new mixture.

17) An acid solution was made by mixing 3 gal. of a 45% acid solution and 2 gal. of a 25% acid solution. What is the concentration of the mixture?

18) For her birthday party Amy mixed together 6 gal. of Brand A fruit punch and 3 gal. of Brand B. Brand A contains 10% fruit juice and Brand B contains 25% fruit juice. What percent of the mixture is fruit juice?

19) 3 lb of peanuts which cost $4/lb were combined with 6 lb of spices which cost $1/lb. Find the cost per lb of the mixture.

20) A metal alloy weighing 3 kg and containing 75% iron is melted and mixed with 12 kg of a different alloy which contains 25% iron. What percent of the resulting alloy is iron?

21) 7 kg of mixed nuts containing 38% peanuts were mixed with 9 kg of another kind of mixed nuts that contain 22% peanuts. Peanuts are what percent of the new mixture?

22) A sugar solution was made by mixing 1 gal. of a 11% sugar solution and 2 gal. of a 53% sugar solution. Find the concentration of the new mixture.

23) For her birthday party Jenny mixed together 4 L of Brand A fruit punch and 2 L of Brand B. Brand A contains 30% fruit juice and Brand B contains 39% fruit juice. What percent of the mixture is fruit juice?

24) 6 kg of mixed nuts containing 18% peanuts were mixed with 9 kg of another kind of mixed nuts that contain 28% peanuts. What percent of the new mixture is peanuts?

Answers to Assignment (ID: 8)

1) 10%
2) 20%
3) 23%
4) 49%
5) 38%
6) 41%
7) 35%
8) 35%
9) 46%
10) 34%
11) 50%
12) 52%
13) 65%
14) 35%
15) $10/lb
16) 44%
17) 37%
18) 15%
19) $2/lb
20) 35%
21) 29%
22) 39%
23) 33%
24) 24%

Name_____

Assignment

Date_____ Period____

1) 14 oz of arabica coffee beans which cost $13/oz were combined with 7 oz of robusta coffee beans which cost $7/oz. Find the cost per oz of the mixture.

2) For his birthday party Jacob mixed together 9 gal. of Brand A fruit punch and 8 gal. of Brand B. Brand A contains 46% fruit juice and Brand B contains 12% fruit juice. What percent of the mixture is fruit juice?

3) An acid solution was made by mixing 8 qt. of a 10% acid solution and 7 qt. of a 70% acid solution. Find the concentration of the new mixture.

4) For her birthday party Gabriella mixed together 2 L of Brand A fruit punch and 3 L of Brand B. Brand A contains 30% fruit juice and Brand B contains 55% fruit juice. What percent of the mixture is fruit juice?

5) For her birthday party Stephanie mixed together 2 L of Brand A fruit punch and 8 L of Brand B. Brand A contains 30% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

6) A metal alloy weighing 1 lb. and containing 70% platinum is melted and mixed with 7 lb. of a different alloy which contains 30% platinum. What percent of the resulting alloy is platinum?

7) An alcohol solution was made by mixing 4 qt. of a 3% alcohol solution and 8 qt. of a 24% alcohol solution. Find the concentration of the new mixture.

8) 3 fl. oz. of a 90% acid solution was mixed with 7 fl. oz. of a 10% acid solution. What is the concentration of the mixture?

9) 6 lb of Brand M Cinnamon was made by combining 1 lb of Indonesian cinnamon which costs $17/lb with 5 lb of Thai cinnamon which costs $11/lb. Find the cost per lb of the mixture.

10) 2 m^3 of soil containing 40% clay was mixed into 8 m^3 of soil containing 35% clay. What is the clay content of the mixture?

11) 11 gal. of a 70% sugar solution was mixed with 9 gal. of a 50% sugar solution. What is the concentration of the mixture?

12) 7 ml of a 6% sugar solution was mixed with 1 ml of a 46% sugar solution. What is the concentration of the mixture?

13) 5 lb of arabica coffee beans which cost $9/lb were combined with 10 lb of robusta coffee beans which cost $12/lb. Find the cost per lb of the mixture.

14) 8 ft^3 of soil containing 54% sand was mixed into 2 ft^3 of soil containing 39% sand. What is the sand content of the mixture?

15) 12 qt. of a 40% alcohol solution was mixed with 8 qt. of a 35% alcohol solution. Find the concentration of the new mixture.

16) 11 oz. of mixed nuts containing 60% peanuts were mixed with 4 oz. of another kind of mixed nuts that contain 45% peanuts. Peanuts are what percent of the new mixture?

17) 12 L of a 64% alcohol solution was mixed with 3 L of a 54% alcohol solution. Find the concentration of the new mixture.

18) 6 ft^3 of soil containing 23% clay was mixed into 2 ft^3 of soil containing 43% clay. What is the clay content of the mixture?

19) A sugar solution was made by mixing 3 qt. of a 56% sugar solution and 2 qt. of a 21% sugar solution. Find the concentration of the new mixture.

20) 7 yd^3 of soil containing 14% clay was mixed into 2 yd^3 of soil containing 32% clay. What is the clay content of the mixture?

21) 4 ft^3 of soil containing 50% sand was mixed into 2 ft^3 of soil containing 20% sand. What is the sand content of the mixture?

22) For her birthday party Brenda mixed together 8 gal. of Brand A fruit punch and 7 gal. of Brand B. Brand A contains 50% fruit juice and Brand B contains 35% fruit juice. What percent of the mixture is fruit juice?

23) For his birthday party Adam mixed together 8 L of Brand A fruit punch and 2 L of Brand B. Brand A contains 15% fruit juice and Brand B contains 40% fruit juice. What percent of the mixture is fruit juice?

24) A metal alloy weighing 1 lb. and containing 68% iron is melted and mixed with 3 lb. of a different alloy which contains 36% iron. What percent of the resulting alloy is iron?

Answers to Assignment (ID: 9)

1) $11/oz
2) 30%
3) 38%
4) 45%
5) 14%
6) 35%
7) 17%
8) 34%
9) $12/lb
10) 36%
11) 61%
12) 11%
13) $11/lb
14) 51%
15) 38%
16) 56%
17) 62%
18) 28%
19) 42%
20) 18%
21) 40%
22) 43%
23) 20%
24) 44%

Name_____

Assignment

Date_____ Period____

1) 2 oz of sliced peaches which cost $10/oz were combined with 3 oz of sliced bananas which cost $5/oz. Find the cost per oz of the mixture.

2) A metal alloy weighing 5 lb. and containing 26% silver is melted and mixed with 11 lb. of a different alloy which contains 10% silver. What percent of the resulting alloy is silver?

3) A sugar solution was made by mixing 12 ml of a 70% sugar solution and 8 ml of a 80% sugar solution. Find the concentration of the new mixture.

4) 9 lb of Julia's Premium Coffee Blend was made by combining 5 lb of arabica coffee beans which cost $13/lb with 4 lb of robusta coffee beans which cost $4/lb. Find the cost per lb of the mixture.

5) For her birthday party Jasmine mixed together 4 gal. of Brand A fruit punch and 6 gal. of Brand B. Brand A contains 5% fruit juice and Brand B contains 35% fruit juice. What percent of the mixture is fruit juice?

6) 3 ml of a 1% sugar solution was mixed with 10 ml of a 40% sugar solution. Find the concentration of the new mixture.

7) 2 oz of bleached flour which costs $7/oz were combined with 3 oz of unbleached flour which costs $2/oz. Find the cost per oz of the mixture.

8) A sugar solution was made by mixing 4 qt. of a 50% sugar solution and 6 qt. of a 5% sugar solution. What is the concentration of the mixture?

9) 12 oz of premium salad mix was made by combining 3 oz of arugula which costs $2/oz with 9 oz of spinach which costs $6/oz. Find the cost per oz of the mixture.

10) 12 oz. of mixed nuts containing 50% peanuts were mixed with 4 oz. of another kind of mixed nuts that contain 62% peanuts. What percent of the new mixture is peanuts?

11) For his birthday party Cody mixed together 4 gal. of Brand A fruit punch and 2 gal. of Brand B. Brand A contains 10% fruit juice and Brand B contains 40% fruit juice. What percent of the mixture is fruit juice?

12) 11 kg of mixed nuts containing 52% peanuts were mixed with 12 kg of another kind of mixed nuts that contain 75% peanuts. Peanuts are what percent of the new mixture?

13) For her birthday party Aliyah mixed together 4 gal. of Brand A fruit punch and 7 gal. of Brand B. Brand A contains 10% fruit juice and Brand B contains 32% fruit juice. What percent of the mixture is fruit juice?

14) 21 kg of vegetable oil was made by combining 7 kg of soybean oil which costs $4/kg with 14 kg of canola oil which costs $1/kg. Find the cost per kg of the mixture.

15) For her birthday party Kali mixed together 4 L of Brand A fruit punch and 9 L of Brand B. Brand A contains 38% fruit juice and Brand B contains 12% fruit juice. What percent of the mixture is fruit juice?

16) 14 kg of brand X sugar which costs $2/kg were combined with 7 kg of brand Y sugar which costs $5/kg. Find the cost per kg of the mixture.

17) For his birthday party Norachai mixed together 9 gal. of Brand A fruit punch and 6 gal. of Brand B. Brand A contains 40% fruit juice and Brand B contains 10% fruit juice. What percent of the mixture is fruit juice?

18) A metal alloy weighing 8 lb. and containing 58% gold is melted and mixed with 1 lb. of a different alloy which contains 4% gold. What percent of the resulting alloy is gold?

19) For his birthday party Matt mixed together 5 L of Brand A fruit punch and 10 L of Brand B. Brand A contains 60% fruit juice and Brand B contains 54% fruit juice. What percent of the mixture is fruit juice?

20) 1 yd^3 of soil containing 14% sand was mixed into 7 yd^3 of soil containing 46% sand. What is the sand content of the mixture?

21) An alcohol solution was made by mixing 8 fl. oz. of a 15% alcohol solution and 12 fl. oz. of a 60% alcohol solution. Find the concentration of the new mixture.

22) 6 fl. oz. of a 70% saline solution was mixed with 12 fl. oz. of a 40% saline solution. What is the concentration of the mixture?

23) 10 oz of Indonesian cinnamon which costs $10/oz were combined with 6 oz of Thai cinnamon which costs $18/oz. Find the cost per oz of the mixture.

24) An alcohol solution was made by mixing 4 L of a 20% alcohol solution and 12 L of a 60% alcohol solution. What is the concentration of the mixture?

Answers to Assignment (ID: 10)

1) $7/oz
2) 15%
3) 74%
4) $9/lb
5) 23%
6) 31%
7) $4/oz
8) 23%
9) $5/oz
10) 53%
11) 20%
12) 64%
13) 24%
14) $2/kg
15) 20%
16) $3/kg
17) 28%
18) 52%
19) 56%
20) 42%
21) 42%
22) 50%
23) $13/oz
24) 50%