Algebra 1   Name_____

Assignment

Date_____ Period____

1) 2 ft³ of silt was mixed into 6 ft³ of soil containing 40% silt. What is the silt content of the mixture?

2) An alcohol solution was made by mixing 2 qt. of a 10% alcohol solution and 10 qt. of a 70% alcohol solution. Find the concentration of the new mixture.

3) 2 L of a 80% alcohol solution was mixed with 6 L of pure water. What is the concentration of the mixture?

4) 10 lbs. of mixed nuts containing 40% peanuts were mixed with 15 lbs. of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

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

6) 9 m³ of silt was mixed into 1 m³ of soil containing 40% silt. What is the silt content of the mixture?

7) For his birthday party Mike mixed together 7 gal. of Brand A fruit punch and 3 gal. of Brand B. Brand A contains 20% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

8) A saline solution was made by mixing 4 fl. oz. of a 52% saline solution and 1 fl. oz. of a 42% saline solution. What is the concentration of the mixture?

9) 10 yd³ of silt was mixed into 1 yd³ of soil containing 12% silt. What is the silt content of the mixture?

10) A metal alloy weighing 3 lb. and containing 80% iron is melted and mixed with 9 lb. of pure iron. What percent of the resulting alloy is iron?

11) 18 oz. of mixed nuts containing 34% peanuts were mixed with 4 oz. of peanuts. What percent of the new mixture is peanuts?

12) 4 gal. of a 60% acid solution was mixed with 1 gal. of pure water. Find the concentration of the new mixture.

13) 1 gal. of a 72% acid solution was mixed with 3 gal. of a 20% acid solution. What is the concentration of the mixture?

14) A metal alloy weighing 11 kg and containing 20% platinum is melted and mixed with 5 kg of pure platinum. What percent of the resulting alloy is platinum?

15) An acid solution was made by mixing 6 gal. of a 90% acid solution and 4 gal. of a 30% acid solution. What is the concentration of the mixture?

16) 4 lbs. of mixed nuts containing 40% peanuts were mixed with 16 lbs. of another kind of mixed nuts that contain 45% peanuts. Peanuts are what percent of the new mixture?

Algebra 1   Name_____

Assignment
Date_____ Period_____

1) 2 ft³ of silt was mixed into 6 ft³ of soil containing 40% silt. What is the silt content of the mixture?

   55%

2) An alcohol solution was made by mixing 2 qt. of a 10% alcohol solution and 10 qt. of a 70% alcohol solution. Find the concentration of the new mixture.

   60%

3) 2 L of a 80% alcohol solution was mixed with 6 L of pure water. What is the concentration of the mixture?

   20%

4) 10 lbs. of mixed nuts containing 40% peanuts were mixed with 15 lbs. of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

   52%

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

   74%

6) 9 m³ of silt was mixed into 1 m³ of soil containing 40% silt. What is the silt content of the mixture?

   94%

7) For his birthday party Mike mixed together 7 gal. of Brand A fruit punch and 3 gal. of Brand B. Brand A contains 20% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

   23%

8) A saline solution was made by mixing 4 fl. oz. of a 52% saline solution and 1 fl. oz. of a 42% saline solution. What is the concentration of the mixture?

   50%

9) 10 yd³ of silt was mixed into 1 yd³ of soil containing 12% silt. What is the silt content of the mixture?

   92%

10) A metal alloy weighing 3 lb. and containing 80% iron is melted and mixed with 9 lb. of pure iron. What percent of the resulting alloy is iron?

   95%

11) 18 oz. of mixed nuts containing 34% peanuts were mixed with 4 oz. of peanuts. What percent of the new mixture is peanuts?

   46%

12) 4 gal. of a 60% acid solution was mixed with 1 gal. of pure water. Find the concentration of the new mixture.

   48%

13) 1 gal. of a 72% acid solution was mixed with 3 gal. of a 20% acid solution. What is the concentration of the mixture?

   33%

14) A metal alloy weighing 11 kg and containing 20% platinum is melted and mixed with 5 kg of pure platinum. What percent of the resulting alloy is platinum?

   45%

15) An acid solution was made by mixing 6 gal. of a 90% acid solution and 4 gal. of a 30% acid solution. What is the concentration of the mixture?

   66%

16) 4 lbs. of mixed nuts containing 40% peanuts were mixed with 16 lbs. of another kind of mixed nuts that contain 45% peanuts. Peanuts are what percent of the new mixture?

   44%

Algebra 1   Name_____

Assignment   Date_____ Period____

1) 18 oz of Adam's Premium Coffee Blend was
made by combining 6 oz of arabica coffee
beans which cost $9/oz with 12 oz of
robusta coffee beans which cost $12/oz.
Find the cost per oz of the mixture.

2) An alcohol solution was made by mixing 9
L of a 50% alcohol solution and 6 L of a
10% alcohol solution. What is the
concentration of the mixture?

3) For her birthday party Shreya mixed
together 4 gal. of Brand A fruit punch and
10 gal. of Brand B. Brand A contains 55%
fruit juice and Brand B contains 20% fruit
juice. What percent of the mixture is fruit
juice?

4) A metal alloy weighing 6 lb. and containing
40% platinum is melted and mixed with 9
lb. of a different alloy which contains 80%
platinum. What percent of the resulting
alloy is platinum?

5) 15 oz. of mixed nuts containing 50%
peanuts were mixed with 6 oz. of another
kind of mixed nuts that contain 15%
peanuts. What percent of the new mixture is
peanuts?

6) 8 m³ of soil containing 38% silt was mixed
into 6 m³ of soil containing 52% silt. What
is the silt content of the mixture?

7) 4 ft³ of sand was mixed into 1 ft³ of soil
containing 50% sand. What is the sand
content of the mixture?

8) 1 yd³ of silt was mixed into 9 yd³ of soil
containing 50% silt. What is the silt content
of the mixture?

9) 3 kg of generic sugar was made by
combining 1 kg of brand X sugar which
costs $4/kg with 2 kg of brand Y sugar
which costs $1/kg. Find the cost per kg of
the mixture.

10) 10 L of a 70% saline solution was mixed
with 5 L of a 85% saline solution. What is
the concentration of the mixture?

11) 6 kg of copper which costs $5/kg were
combined with 3 kg of tin which costs
$8/kg. Find the cost per kg of the mixture.

12) 6 yd³ of soil containing 10% clay was mixed
into 3 yd³ of soil containing 40% clay.
What is the clay content of the mixture?

13) 16 oz. of mixed nuts containing 54%
peanuts were mixed with 8 oz. of another
kind of mixed nuts that contain 24%
peanuts. Peanuts are what percent of the
new mixture?

14) For her birthday party Jasmine mixed
together 3 L of Brand A fruit punch and 2 L
of apple juice. If Brand A contains 15%
fruit juice then what percent of the final
mixture is fruit juice?

15) A metal alloy weighing 6 kg and containing
70% copper is melted and mixed with 9 kg
of a different alloy which contains 90%
copper. What percent of the resulting alloy
is copper?

16) A metal alloy weighing 1 oz. and containing
70% gold is melted and mixed with 9 oz. of
a different alloy which contains 60% gold.
What percent of the resulting alloy is gold?

Algebra 1   Name_____

Assignment

Date_____ Period_____

1) 18 oz of Adam's Premium Coffee Blend was made by combining 6 oz of arabica coffee beans which cost $9/oz with 12 oz of robusta coffee beans which cost $12/oz. Find the cost per oz of the mixture.

    $11/oz

2) An alcohol solution was made by mixing 9 L of a 50% alcohol solution and 6 L of a 10% alcohol solution. What is the concentration of the mixture?

    34%

3) For her birthday party Shreya mixed together 4 gal. of Brand A fruit punch and 10 gal. of Brand B. Brand A contains 55% fruit juice and Brand B contains 20% fruit juice. What percent of the mixture is fruit juice?

    30%

4) A metal alloy weighing 6 lb. and containing 40% platinum is melted and mixed with 9 lb. of a different alloy which contains 80% platinum. What percent of the resulting alloy is platinum?

    64%

5) 15 oz. of mixed nuts containing 50% peanuts were mixed with 6 oz. of another kind of mixed nuts that contain 15% peanuts. What percent of the new mixture is peanuts?

    40%

6) 8 m³ of soil containing 38% silt was mixed into 6 m³ of soil containing 52% silt. What is the silt content of the mixture?

    44%

7) 4 ft³ of sand was mixed into 1 ft³ of soil containing 50% sand. What is the sand content of the mixture?

    90%

8) 1 yd³ of silt was mixed into 9 yd³ of soil containing 50% silt. What is the silt content of the mixture?

    55%

9) 3 kg of generic sugar was made by combining 1 kg of brand X sugar which costs $4/kg with 2 kg of brand Y sugar which costs $1/kg. Find the cost per kg of the mixture.

    $2/kg

10) 10 L of a 70% saline solution was mixed with 5 L of a 85% saline solution. What is the concentration of the mixture?

    75%

11) 6 kg of copper which costs $5/kg were combined with 3 kg of tin which costs $8/kg. Find the cost per kg of the mixture.

    $6/kg

12) 6 yd³ of soil containing 10% clay was mixed into 3 yd³ of soil containing 40% clay. What is the clay content of the mixture?

    20%

13) 16 oz. of mixed nuts containing 54% peanuts were mixed with 8 oz. of another kind of mixed nuts that contain 24% peanuts. Peanuts are what percent of the new mixture?

    44%

14) For her birthday party Jasmine mixed together 3 L of Brand A fruit punch and 2 L of apple juice. If Brand A contains 15% fruit juice then what percent of the final mixture is fruit juice?

    49%

15) A metal alloy weighing 6 kg and containing 70% copper is melted and mixed with 9 kg of a different alloy which contains 90% copper. What percent of the resulting alloy is copper?

    82%

16) A metal alloy weighing 1 oz. and containing 70% gold is melted and mixed with 9 oz. of a different alloy which contains 60% gold. What percent of the resulting alloy is gold?

    61%

Algebra 1   Name_____

Assignment

1) A metal alloy weighing 12 oz. and containing 5% copper is melted and mixed with 2 oz. of a different alloy which contains 40% copper. What percent of the resulting alloy is copper?

2) 2 L of a 20% saline solution was mixed with 8 L of a 65% saline solution. What is the concentration of the mixture?

3) A saline solution was made by mixing 1 qt. of a 40% saline solution and 4 qt. of a 70% saline solution. Find the concentration of the new mixture.

4) A metal alloy weighing 4 oz. and containing 76% iron is melted and mixed with 8 oz. of a different alloy which contains 16% iron. What percent of the resulting alloy is iron?

5) 20 oz. of mixed nuts containing 74% peanuts were mixed with 10 oz. of another kind of mixed nuts that contain 38% peanuts. Peanuts are what percent of the new mixture?

6) A metal alloy weighing 8 oz. and containing 40% silver is melted and mixed with 2 oz. of pure silver. What percent of the resulting alloy is silver?

7) 7 oz of mixed nuts was made by combining 3 oz of walnuts which cost $3/oz with 4 oz of peanuts which cost $10/oz. Find the cost per oz of the mixture.

8) 5 lbs. of mixed nuts containing 30% peanuts were mixed with 4 lbs. of another kind of mixed nuts that contain 75% peanuts. Peanuts are what percent of the new mixture?

9) 12 lb of arabica coffee beans which cost $8/lb were combined with 8 lb of robusta coffee beans which cost $13/lb. Find the cost per lb of the mixture.

10) 6 qt. of a 90% acid solution was mixed with 4 qt. of a 40% acid solution. Find the concentration of the new mixture.

11) 10 lb of soybean oil which costs $1/lb were combined with 5 lb of canola oil which costs $4/lb. Find the cost per lb of the mixture.

12) 7 oz of mixed nuts was made by combining 6 oz of walnuts which cost $12/oz with 1 oz of peanuts which cost $5/oz. Find the cost per oz of the mixture.

13) 5 L of a 70% acid solution was mixed with 2 L of pure water. What is the concentration of the mixture?

14) 15 oz of bleached flour which costs $8/oz were combined with 5 oz of unbleached flour which costs $4/oz. Find the cost per oz of the mixture.

15) An acid solution was made by mixing 4 fl. oz. of a 75% acid solution and 10 fl. oz. of a 40% acid solution. What is the concentration of the mixture?

16) 4 ml of a 90% alcohol solution was mixed with 1 ml of a 70% alcohol solution. Find the concentration of the new mixture.

Algebra 1   Name_____

Assignment   Date_____ Period____

1) A metal alloy weighing 12 oz. and containing 5% copper is melted and mixed with 2 oz. of a different alloy which contains 40% copper. What percent of the resulting alloy is copper?

   10%

2) 2 L of a 20% saline solution was mixed with 8 L of a 65% saline solution. What is the concentration of the mixture?

   56%

3) A saline solution was made by mixing 1 qt. of a 40% saline solution and 4 qt. of a 70% saline solution. Find the concentration of the new mixture.

   64%

4) A metal alloy weighing 4 oz. and containing 76% iron is melted and mixed with 8 oz. of a different alloy which contains 16% iron. What percent of the resulting alloy is iron?

   36%

5) 20 oz. of mixed nuts containing 74% peanuts were mixed with 10 oz. of another kind of mixed nuts that contain 38% peanuts. Peanuts are what percent of the new mixture?

   62%

6) A metal alloy weighing 8 oz. and containing 40% silver is melted and mixed with 2 oz. of pure silver. What percent of the resulting alloy is silver?

   52%

7) 7 oz of mixed nuts was made by combining 3 oz of walnuts which cost $3/oz with 4 oz of peanuts which cost $10/oz. Find the cost per oz of the mixture.

   $7/oz

8) 5 lbs. of mixed nuts containing 30% peanuts were mixed with 4 lbs. of another kind of mixed nuts that contain 75% peanuts. Peanuts are what percent of the new mixture?

   50%

9) 12 lb of arabica coffee beans which cost $8/lb were combined with 8 lb of robusta coffee beans which cost $13/lb. Find the cost per lb of the mixture.

   $10/lb

10) 6 qt. of a 90% acid solution was mixed with 4 qt. of a 40% acid solution. Find the concentration of the new mixture.

   70%

11) 10 lb of soybean oil which costs $1/lb were combined with 5 lb of canola oil which costs $4/lb. Find the cost per lb of the mixture.

   $2/lb

12) 7 oz of mixed nuts was made by combining 6 oz of walnuts which cost $12/oz with 1 oz of peanuts which cost $5/oz. Find the cost per oz of the mixture.

   $11/oz

13) 5 L of a 70% acid solution was mixed with 2 L of pure water. What is the concentration of the mixture?

   50%

14) 15 oz of bleached flour which costs $8/oz were combined with 5 oz of unbleached flour which costs $4/oz. Find the cost per oz of the mixture.

   $7/oz

15) An acid solution was made by mixing 4 fl. oz. of a 75% acid solution and 10 fl. oz. of a 40% acid solution. What is the concentration of the mixture?

   50%

16) 4 ml of a 90% alcohol solution was mixed with 1 ml of a 70% alcohol solution. Find the concentration of the new mixture.

   86%

Algebra 1   Name_____

Assignment

Date_____ Period_____

1) 1 yd³ of soil containing 34% sand was mixed into 4 yd³ of soil containing 44% sand. What is the sand content of the mixture?

2) 9 m³ of soil containing 30% silt was mixed into 6 m³ of soil containing 15% silt. What is the silt content of the mixture?

3) 6 kg of bleached flour which costs $5/kg were combined with 12 kg of unbleached flour which costs $8/kg. Find the cost per kg of the mixture.

4) 6 kg of mixed nuts containing 50% peanuts were mixed with 19 kg of peanuts. What percent of the new mixture is peanuts?

5) 10 oz of cane molasses which costs $4/oz were combined with 5 oz of beet molasses which costs $1/oz. Find the cost per oz of the mixture.

6) An alcohol solution was made by mixing 9 L of a 80% alcohol solution and 3 L of a 20% alcohol solution. Find the concentration of the new mixture.

7) For her birthday party Heather mixed together 8 gal. of Brand A fruit punch and 10 gal. of grape juice. If Brand A contains 10% fruit juice then what percent of the final mixture is fruit juice?

8) 5 oz of peanuts which cost $1/oz were combined with 10 oz of spices which cost $4/oz. Find the cost per oz of the mixture.

9) Jose mixed 15 kg of peanuts with 17 kg of mixed nuts containing 36% peanuts. Peanuts are what percent of the new mixture?

10) A sugar solution was made by mixing 1 qt. of a 46% sugar solution and 3 qt. of a 54% sugar solution. What is the concentration of the mixture?

11) 9 yd³ of soil containing 35% sand was mixed into 3 yd³ of soil containing 15% sand. What is the sand content of the mixture?

12) 6 yd³ of sand was mixed into 10 yd³ of soil containing 44% sand. What is the sand content of the mixture?

13) 12 L of a 22% sugar solution was mixed with 2 L of a 1% sugar solution. What is the concentration of the mixture?

14) 4 m³ of soil containing 45% clay was mixed into 2 m³ of soil containing 15% clay. What is the clay content of the mixture?

15) For his birthday party Jack mixed together 4 gal. of Brand A fruit punch and 2 gal. of apple juice. If Brand A contains 10% fruit juice then what percent of the final mixture is fruit juice?

16) 5 fl. oz. of a 64% sugar solution was mixed with 3 fl. oz. of pure water. What is the concentration of the mixture?

Algebra 1   Name_____

Assignment

Date_____ Period_____

1) 1 yd³ of soil containing 34% sand was mixed into 4 yd³ of soil containing 44% sand. What is the sand content of the mixture?

42%

2) 9 m³ of soil containing 30% silt was mixed into 6 m³ of soil containing 15% silt. What is the silt content of the mixture?

24%

3) 6 kg of bleached flour which costs $5/kg were combined with 12 kg of unbleached flour which costs $8/kg. Find the cost per kg of the mixture.

$7/kg

4) 6 kg of mixed nuts containing 50% peanuts were mixed with 19 kg of peanuts. What percent of the new mixture is peanuts?

88%

5) 10 oz of cane molasses which costs $4/oz were combined with 5 oz of beet molasses which costs $1/oz. Find the cost per oz of the mixture.

$3/oz

6) An alcohol solution was made by mixing 9 L of a 80% alcohol solution and 3 L of a 20% alcohol solution. Find the concentration of the new mixture.

65%

7) For her birthday party Heather mixed together 8 gal. of Brand A fruit punch and 10 gal. of grape juice. If Brand A contains 10% fruit juice then what percent of the final mixture is fruit juice?

60%

8) 5 oz of peanuts which cost $1/oz were combined with 10 oz of spices which cost $4/oz. Find the cost per oz of the mixture.

$3/oz

9) Jose mixed 15 kg of peanuts with 17 kg of mixed nuts containing 36% peanuts. Peanuts are what percent of the new mixture?

66%

10) A sugar solution was made by mixing 1 qt. of a 46% sugar solution and 3 qt. of a 54% sugar solution. What is the concentration of the mixture?

52%

11) 9 yd³ of soil containing 35% sand was mixed into 3 yd³ of soil containing 15% sand. What is the sand content of the mixture?

30%

12) 6 yd³ of sand was mixed into 10 yd³ of soil containing 44% sand. What is the sand content of the mixture?

65%

13) 12 L of a 22% sugar solution was mixed with 2 L of a 1% sugar solution. What is the concentration of the mixture?

19%

14) 4 m³ of soil containing 45% clay was mixed into 2 m³ of soil containing 15% clay. What is the clay content of the mixture?

35%

15) For his birthday party Jack mixed together 4 gal. of Brand A fruit punch and 2 gal. of apple juice. If Brand A contains 10% fruit juice then what percent of the final mixture is fruit juice?

40%

16) 5 fl. oz. of a 64% sugar solution was mixed with 3 fl. oz. of pure water. What is the concentration of the mixture?

40%

Algebra 1

Name_____

Assignment

Date_____ Period_____

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

2) For his birthday party Jack mixed together 2 L of Brand A fruit punch and 3 L of Brand B. Brand A contains 15% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

3) 9 fl. oz. of a 10% acid solution was mixed with 1 fl. oz. of pure water. Find the concentration of the new mixture.

4) 3 L of a 78% alcohol solution was mixed with 10 L of pure water. Find the concentration of the new mixture.

5) 15 oz. of mixed nuts containing 68% peanuts were mixed with 5 oz. of another kind of mixed nuts that contain 24% peanuts. Peanuts are what percent of the new mixture?

6) For her birthday party Jasmine mixed together 4 L of Brand A fruit punch and 2 L of Brand B. Brand A contains 20% fruit juice and Brand B contains 44% fruit juice. What percent of the mixture is fruit juice?

7) 6 yd³ of clay was mixed into 9 yd³ of soil containing 20% clay. What is the clay content of the mixture?

8) 4 oz. of mixed nuts containing 65% peanuts were mixed with 16 oz. of another kind of mixed nuts that contain 70% peanuts. What percent of the new mixture is peanuts?

9) 6 kg of mixed nuts was made by combining 4 kg of walnuts which cost $9/kg with 2 kg of peanuts which cost $3/kg. Find the cost per kg of the mixture.

10) A metal alloy weighing 2 oz. and containing 80% gold is melted and mixed with 3 oz. of pure gold. What percent of the resulting alloy is gold?

11) A metal alloy weighing 4 kg and containing 50% platinum is melted and mixed with 11 kg of a different alloy which contains 5% platinum. What percent of the resulting alloy is platinum?

12) A metal alloy weighing 2 lb. and containing 85% copper is melted and mixed with 8 lb. of a different alloy which contains 50% copper. What percent of the resulting alloy is copper?

13) 8 yd³ of clay was mixed into 6 yd³ of soil containing 58% clay. What is the clay content of the mixture?

14) A metal alloy weighing 6 lb. and containing 10% copper is melted and mixed with 2 lb. of a different alloy which contains 70% copper. What percent of the resulting alloy is copper?

15) 3 m³ of soil containing 55% silt was mixed into 2 m³ of soil containing 45% silt. What is the silt content of the mixture?

16) 2 gal. of a 75% saline solution was mixed with 4 gal. of pure water. What is the concentration of the mixture?

Algebra 1

Name_____

Assignment

Date_____ Period_____

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

$3/kg

2) For his birthday party Jack mixed together 2 L of Brand A fruit punch and 3 L of Brand B. Brand A contains 15% fruit juice and Brand B contains 30% fruit juice. What percent of the mixture is fruit juice?

24%

3) 9 fl. oz. of a 10% acid solution was mixed with 1 fl. oz. of pure water. Find the concentration of the new mixture.

9%

4) 3 L of a 78% alcohol solution was mixed with 10 L of pure water. Find the concentration of the new mixture.

18%

5) 15 oz. of mixed nuts containing 68% peanuts were mixed with 5 oz. of another kind of mixed nuts that contain 24% peanuts. Peanuts are what percent of the new mixture?

57%

6) For her birthday party Jasmine mixed together 4 L of Brand A fruit punch and 2 L of Brand B. Brand A contains 20% fruit juice and Brand B contains 44% fruit juice. What percent of the mixture is fruit juice?

28%

7) 6 yd³ of clay was mixed into 9 yd³ of soil containing 20% clay. What is the clay content of the mixture?

52%

8) 4 oz. of mixed nuts containing 65% peanuts were mixed with 16 oz. of another kind of mixed nuts that contain 70% peanuts. What percent of the new mixture is peanuts?

69%

9) 6 kg of mixed nuts was made by combining 4 kg of walnuts which cost $9/kg with 2 kg of peanuts which cost $3/kg. Find the cost per kg of the mixture.

$7/kg

10) A metal alloy weighing 2 oz. and containing 80% gold is melted and mixed with 3 oz. of pure gold. What percent of the resulting alloy is gold?

92%

11) A metal alloy weighing 4 kg and containing 50% platinum is melted and mixed with 11 kg of a different alloy which contains 5% platinum. What percent of the resulting alloy is platinum?

17%

12) A metal alloy weighing 2 lb. and containing 85% copper is melted and mixed with 8 lb. of a different alloy which contains 50% copper. What percent of the resulting alloy is copper?

57%

13) 8 yd³ of clay was mixed into 6 yd³ of soil containing 58% clay. What is the clay content of the mixture?

82%

14) A metal alloy weighing 6 lb. and containing 10% copper is melted and mixed with 2 lb. of a different alloy which contains 70% copper. What percent of the resulting alloy is copper?

25%

15) 3 m³ of soil containing 55% silt was mixed into 2 m³ of soil containing 45% silt. What is the silt content of the mixture?

51%

16) 2 gal. of a 75% saline solution was mixed with 4 gal. of pure water. What is the concentration of the mixture?

25%

Algebra 1   Name_____

Assignment   Date_____ Period_____

1) 6 m³ of clay was mixed into 1 m³ of soil containing 30% clay. What is the clay content of the mixture?

2) A metal alloy weighing 10 kg and containing 61% gold is melted and mixed with 5 kg of pure gold. What percent of the resulting alloy is gold?

3) 9 ft³ of soil containing 10% silt was mixed into 3 ft³ of soil containing 50% silt. What is the silt content of the mixture?

4) 15 oz of baking flour was made by combining 12 oz of bleached flour which costs $2/oz with 3 oz of unbleached flour which costs $7/oz. Find the cost per oz of the mixture.

5) A metal alloy weighing 6 lb. and containing 90% copper is melted and mixed with 4 lb. of a different alloy which contains 5% copper. What percent of the resulting alloy is copper?

6) 10 oz. of mixed nuts containing 70% peanuts were mixed with 15 oz. of peanuts. What percent of the new mixture is peanuts?

7) A metal alloy weighing 2 mg and containing 20% iron is melted and mixed with 8 mg of a different alloy which contains 60% iron. What percent of the resulting alloy is iron?

8) 10 yd³ of soil containing 44% sand was mixed into 6 yd³ of soil containing 12% sand. What is the sand content of the mixture?

9) 12 lb of mixed nuts was made by combining 8 lb of walnuts which cost $2/lb with 4 lb of peanuts which cost $5/lb. Find the cost per lb of the mixture.

10) 12 oz of Indonesian cinnamon which costs $14/oz were combined with 6 oz of Thai cinnamon which costs $11/oz. Find the cost per oz of the mixture.

11) 15 kg of mixed nuts containing 30% peanuts were mixed with 10 kg of another kind of mixed nuts that contain 60% peanuts. Peanuts are what percent of the new mixture?

12) 18 kg of mixed nuts containing 54% peanuts were mixed with 11 kg of another kind of mixed nuts that contain 25% peanuts. What percent of the new mixture is peanuts?

13) 2 fl. oz. of a 25% saline solution was mixed with 4 fl. oz. of a 10% saline solution. Find the concentration of the new mixture.

14) A metal alloy weighing 3 kg and containing 72% platinum is melted and mixed with 9 kg of pure platinum. What percent of the resulting alloy is platinum?

15) 6 lbs. of mixed nuts containing 18% peanuts were mixed with 9 lbs. of another kind of mixed nuts that contain 28% peanuts. What percent of the new mixture is peanuts?

16) 14 kg of mixed nuts containing 35% peanuts were mixed with 16 kg of another kind of mixed nuts that contain 20% peanuts. What percent of the new mixture is peanuts?

Assignment

Date_____ Period____

1) 6 m³ of clay was mixed into 1 m³ of soil   90%
   containing 30% clay. What is the clay
   content of the mixture?

2) A metal alloy weighing 10 kg and   74%
   containing 61% gold is melted and mixed
   with 5 kg of pure gold. What percent of the
   resulting alloy is gold?

3) 9 ft³ of soil containing 10% silt was mixed   20%
   into 3 ft³ of soil containing 50% silt. What
   is the silt content of the mixture?

4) 15 oz of baking flour was made by $3/oz
   combining 12 oz of bleached flour which
   costs $2/oz with 3 oz of unbleached flour
   which costs $7/oz. Find the cost per oz of
   the mixture.

5) A metal alloy weighing 6 lb. and containing   56%
   90% copper is melted and mixed with 4 lb.
   of a different alloy which contains 5%
   copper. What percent of the resulting alloy
   is copper?

6) 10 oz. of mixed nuts containing 70%   88%
   peanuts were mixed with 15 oz. of peanuts.
   What percent of the new mixture is peanuts?

7) A metal alloy weighing 2 mg and containing   52%
   20% iron is melted and mixed with 8 mg of
   a different alloy which contains 60% iron.
   What percent of the resulting alloy is iron?

8) 10 yd³ of soil containing 44% sand was   32%
   mixed into 6 yd³ of soil containing 12%
   sand. What is the sand content of the
   mixture?

9) 12 lb of mixed nuts was made by combining $3/lb
   8 lb of walnuts which cost $2/lb with 4 lb of
   peanuts which cost $5/lb. Find the cost per
   lb of the mixture.

10) 12 oz of Indonesian cinnamon which costs $13/oz
   $14/oz were combined with 6 oz of Thai
   cinnamon which costs $11/oz. Find the cost
   per oz of the mixture.

11) 15 kg of mixed nuts containing 30% peanuts   42%
   were mixed with 10 kg of another kind of
   mixed nuts that contain 60% peanuts.
   Peanuts are what percent of the new
   mixture?

12) 18 kg of mixed nuts containing 54% peanuts   43%
   were mixed with 11 kg of another kind of
   mixed nuts that contain 25% peanuts. What
   percent of the new mixture is peanuts?

13) 2 fl. oz. of a 25% saline solution was mixed   15%
   with 4 fl. oz. of a 10% saline solution. Find
   the concentration of the new mixture.

14) A metal alloy weighing 3 kg and containing   93%
   72% platinum is melted and mixed with 9 kg
   of pure platinum. What percent of the
   resulting alloy is platinum?

15) 6 lbs. of mixed nuts containing 18% peanuts   24%
   were mixed with 9 lbs. of another kind of
   mixed nuts that contain 28% peanuts. What
   percent of the new mixture is peanuts?

16) 14 kg of mixed nuts containing 35% peanuts   27%
   were mixed with 16 kg of another kind of
   mixed nuts that contain 20% peanuts. What
   percent of the new mixture is peanuts?

Algebra 1   Name_____

Assignment   Date_____ Period_____

1) A metal alloy weighing 10 mg and
    containing 76% iron is melted and mixed
    with 6 mg of pure iron. What percent of the
    resulting alloy is iron?

2) A sugar solution was made by mixing 5 gal.
    of a 75% sugar solution and 10 gal. of a
    30% sugar solution. Find the concentration
    of the new mixture.

3) 11 qt. of a 80% sugar solution was mixed
    with 9 qt. of pure water. Find the
    concentration of the new mixture.

4) A metal alloy weighing 3 oz. and containing
    55% copper is melted and mixed with 2 oz.
    of a different alloy which contains 70%
    copper. What percent of the resulting alloy
    is copper?

5) 4 oz of copper which costs $3/oz were
    combined with 2 oz of tin which costs $9/oz.
    Find the cost per oz of the mixture.

6) 8 m³ of soil containing 10% silt was mixed
    into 2 m³ of soil containing 35% silt. What
    is the silt content of the mixture?

7) A metal alloy weighing 9 mg and containing
    65% iron is melted and mixed with 6 mg of
    pure iron. What percent of the resulting
    alloy is iron?

8) A sugar solution was made by mixing 3 fl.
    oz. of a 50% sugar solution and 6 fl. oz. of a
    35% sugar solution. Find the concentration
    of the new mixture.

9) 10 oz. of mixed nuts containing 75%
    peanuts were mixed with 15 oz. of another
    kind of mixed nuts that contain 40%
    peanuts. Peanuts are what percent of the
    new mixture?

10) 6 gal. of a 55% alcohol solution was mixed
     with 9 gal. of a 65% alcohol solution. What
     is the concentration of the mixture?

11) For her birthday party Kim mixed together 3
     L of Brand A fruit punch and 7 L of Brand
     B. Brand A contains 45% fruit juice and
     Brand B contains 25% fruit juice. What
     percent of the mixture is fruit juice?

12) 2 ft³ of soil containing 50% sand was mixed
     into 4 ft³ of soil containing 35% sand. What
     is the sand content of the mixture?

13) A metal alloy weighing 6 oz. and containing
     20% copper is melted and mixed with 9 oz.
     of a different alloy which contains 40%
     copper. What percent of the resulting alloy
     is copper?

14) 6 qt. of a 45% sugar solution was mixed
     with 9 qt. of pure water. What is the
     concentration of the mixture?

15) A metal alloy weighing 11 oz. and
     containing 70% silver is melted and mixed
     with 4 oz. of pure silver. What percent of
     the resulting alloy is silver?

16) 9 lbs. of mixed nuts containing 38% peanuts
     were mixed with 15 lbs. of another kind of
     mixed nuts that contain 70% peanuts. What
     percent of the new mixture is peanuts?

Algebra 1   Name_____

Assignment

Date_____ Period____

1) A metal alloy weighing 10 mg and containing 76% iron is melted and mixed with 6 mg of pure iron. What percent of the resulting alloy is iron?

    85%

2) A sugar solution was made by mixing 5 gal. of a 75% sugar solution and 10 gal. of a 30% sugar solution. Find the concentration of the new mixture.

    45%

3) 11 qt. of a 80% sugar solution was mixed with 9 qt. of pure water. Find the concentration of the new mixture.

    44%

4) A metal alloy weighing 3 oz. and containing 55% copper is melted and mixed with 2 oz. of a different alloy which contains 70% copper. What percent of the resulting alloy is copper?

    61%

5) 4 oz of copper which costs $3/oz were combined with 2 oz of tin which costs $9/oz. Find the cost per oz of the mixture.

    $5/oz

6) 8 m³ of soil containing 10% silt was mixed into 2 m³ of soil containing 35% silt. What is the silt content of the mixture?

    15%

7) A metal alloy weighing 9 mg and containing 65% iron is melted and mixed with 6 mg of pure iron. What percent of the resulting alloy is iron?

    79%

8) A sugar solution was made by mixing 3 fl. oz. of a 50% sugar solution and 6 fl. oz. of a 35% sugar solution. Find the concentration of the new mixture.

    40%

9) 10 oz. of mixed nuts containing 75% peanuts were mixed with 15 oz. of another kind of mixed nuts that contain 40% peanuts. Peanuts are what percent of the new mixture?

    54%

10) 6 gal. of a 55% alcohol solution was mixed with 9 gal. of a 65% alcohol solution. What is the concentration of the mixture?

    61%

11) For her birthday party Kim mixed together 3 L of Brand A fruit punch and 7 L of Brand B. Brand A contains 45% fruit juice and Brand B contains 25% fruit juice. What percent of the mixture is fruit juice?

    31%

12) 2 ft³ of soil containing 50% sand was mixed into 4 ft³ of soil containing 35% sand. What is the sand content of the mixture?

    40%

13) A metal alloy weighing 6 oz. and containing 20% copper is melted and mixed with 9 oz. of a different alloy which contains 40% copper. What percent of the resulting alloy is copper?

    32%

14) 6 qt. of a 45% sugar solution was mixed with 9 qt. of pure water. What is the concentration of the mixture?

    18%

15) A metal alloy weighing 11 oz. and containing 70% silver is melted and mixed with 4 oz. of pure silver. What percent of the resulting alloy is silver?

    78%

16) 9 lbs. of mixed nuts containing 38% peanuts were mixed with 15 lbs. of another kind of mixed nuts that contain 70% peanuts. What percent of the new mixture is peanuts?

    58%

Algebra 1   Name_____

Assignment   Date_____ Period_____

1) 6 L of a 50% acid solution was mixed with 4 L of a 10% acid solution. Find the concentration of the new mixture.

2) 6 m³ of soil containing 35% clay was mixed into 3 m³ of soil containing 20% clay. What is the clay content of the mixture?

3) An alcohol solution was made by mixing 8 gal. of a 60% alcohol solution and 2 gal. of a 70% alcohol solution. Find the concentration of the new mixture.

4) 3 yd³ of soil containing 20% sand was mixed into 2 yd³ of soil containing 25% sand. What is the sand content of the mixture?

5) A metal alloy weighing 3 mg and containing 40% platinum is melted and mixed with 7 mg of a different alloy which contains 20% platinum. What percent of the resulting alloy is platinum?

6) For his birthday party Jacob mixed together 2 L of Brand A fruit punch and 3 L of Brand B. Brand A contains 45% fruit juice and Brand B contains 40% fruit juice. What percent of the mixture is fruit juice?

7) An acid solution was made by mixing 9 qt. of a 70% acid solution and 3 qt. of a 30% acid solution. Find the concentration of the new mixture.

8) 6 ft³ of soil containing 28% clay was mixed into 4 ft³ of soil containing 58% clay. What is the clay content of the mixture?

9) 12 fl. oz. of a 40% sugar solution was mixed with 3 fl. oz. of a 80% sugar solution. What is the concentration of the mixture?

10) 8 lbs. of mixed nuts containing 30% peanuts were mixed with 4 lbs. of another kind of mixed nuts that contain 18% peanuts. What percent of the new mixture is peanuts?

11) 4 lbs. of mixed nuts containing 30% peanuts were mixed with 16 lbs. of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

12) 3 m³ of soil containing 40% sand was mixed into 1 m³ of soil containing 20% sand. What is the sand content of the mixture?

13) 9 gal. of a 40% saline solution was mixed with 3 gal. of pure water. Find the concentration of the new mixture.

14) 12 oz of copper which costs $2/oz were combined with 6 oz of tin which costs $5/oz. Find the cost per oz of the mixture.

15) Micaela mixed 10 oz. of peanuts with 20 oz. of mixed nuts containing 70% peanuts. Peanuts are what percent of the new mixture?

16) 6 fl. oz. of a 76% alcohol solution was mixed with 3 fl. oz. of a 43% alcohol solution. Find the concentration of the new mixture.

Algebra 1   Name_____

Assignment

1) 6 L of a 50% acid solution was mixed with 4 L of a 10% acid solution. Find the concentration of the new mixture.

    34%

2) 6 m³ of soil containing 35% clay was mixed into 3 m³ of soil containing 20% clay. What is the clay content of the mixture?

    30%

3) An alcohol solution was made by mixing 8 gal. of a 60% alcohol solution and 2 gal. of a 70% alcohol solution. Find the concentration of the new mixture.

    62%

4) 3 yd³ of soil containing 20% sand was mixed into 2 yd³ of soil containing 25% sand. What is the sand content of the mixture?

    22%

5) A metal alloy weighing 3 mg and containing 40% platinum is melted and mixed with 7 mg of a different alloy which contains 20% platinum. What percent of the resulting alloy is platinum?

    26%

6) For his birthday party Jacob mixed together 2 L of Brand A fruit punch and 3 L of Brand B. Brand A contains 45% fruit juice and Brand B contains 40% fruit juice. What percent of the mixture is fruit juice?

    42%

7) An acid solution was made by mixing 9 qt. of a 70% acid solution and 3 qt. of a 30% acid solution. Find the concentration of the new mixture.

    60%

8) 6 ft³ of soil containing 28% clay was mixed into 4 ft³ of soil containing 58% clay. What is the clay content of the mixture?

    40%

9) 12 fl. oz. of a 40% sugar solution was mixed with 3 fl. oz. of a 80% sugar solution. What is the concentration of the mixture?

    48%

10) 8 lbs. of mixed nuts containing 30% peanuts were mixed with 4 lbs. of another kind of mixed nuts that contain 18% peanuts. What percent of the new mixture is peanuts?

    26%

11) 4 lbs. of mixed nuts containing 30% peanuts were mixed with 16 lbs. of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

    54%

12) 3 m³ of soil containing 40% sand was mixed into 1 m³ of soil containing 20% sand. What is the sand content of the mixture?

    35%

13) 9 gal. of a 40% saline solution was mixed with 3 gal. of pure water. Find the concentration of the new mixture.

    30%

14) 12 oz of copper which costs $2/oz were combined with 6 oz of tin which costs $5/oz. Find the cost per oz of the mixture.

    $3/oz

15) Micaela mixed 10 oz. of peanuts with 20 oz. of mixed nuts containing 70% peanuts. Peanuts are what percent of the new mixture?

    80%

16) 6 fl. oz. of a 76% alcohol solution was mixed with 3 fl. oz. of a 43% alcohol solution. Find the concentration of the new mixture.

    65%

Algebra 1   Name_____

Assignment   Date_____ Period____

1) 8 lb of brand X sugar which costs $5/lb were combined with 16 lb of brand Y sugar which costs $2/lb. Find the cost per lb of the mixture.

2) 1 L of a 4% alcohol solution was mixed with 3 L of pure water. Find the concentration of the new mixture.

3) A sugar solution was made by mixing 3 qt. of a 80% sugar solution and 2 qt. of a 20% sugar solution. What is the concentration of the mixture?

4) 12 fl. oz. of a 40% saline solution was mixed with 8 fl. oz. of pure water. What is the concentration of the mixture?

5) 1 oz of brand X coffee which costs $7/oz was combined with 11 oz of brand Y coffee which costs $19/oz. Find the cost per oz of the mixture.

6) 4 yd³ of soil containing 55% clay was mixed into 6 yd³ of soil containing 15% clay. What is the clay content of the mixture?

7) 9 yd³ of soil containing 40% clay was mixed into 3 yd³ of soil containing 20% clay. What is the clay content of the mixture?

8) 3 ml of a 70% alcohol solution was mixed with 9 ml of a 10% alcohol solution. What is the concentration of the mixture?

9) A metal alloy weighing 4 mg and containing 88% gold is melted and mixed with 12 mg of pure gold. What percent of the resulting alloy is gold?

10) 9 kg of bleached flour which costs $3/kg were combined with 3 kg of unbleached flour which costs $7/kg. Find the cost per kg of the mixture.

11) 4 fl. oz. of a 55% alcohol solution was mixed with 6 fl. oz. of pure water. What is the concentration of the mixture?

12) 12 L of a 40% alcohol solution was mixed with 8 L of a 70% alcohol solution. Find the concentration of the new mixture.

13) For her birthday party Mary mixed together 3 gal. of Brand A fruit punch and 10 gal. of Brand B. Brand A contains 50% fruit juice and Brand B contains 37% fruit juice. What percent of the mixture is fruit juice?

14) 8 qt. of a 75% acid solution was mixed with 1 qt. of a 48% acid solution. Find the concentration of the new mixture.

15) 2 qt. of a 38% sugar solution was mixed with 6 qt. of a 86% sugar solution. What is the concentration of the mixture?

16) 16 oz. of mixed nuts containing 30% peanuts were mixed with 14 oz. of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

Algebra 1

Name_____

Assignment

Date_____ Period_____

1) 8 lb of brand X sugar which costs $5/lb were combined with 16 lb of brand Y sugar which costs $2/lb. Find the cost per lb of the mixture.

$3/lb

2) 1 L of a 4% alcohol solution was mixed with 3 L of pure water. Find the concentration of the new mixture.

1%

3) A sugar solution was made by mixing 3 qt. of a 80% sugar solution and 2 qt. of a 20% sugar solution. What is the concentration of the mixture?

56%

4) 12 fl. oz. of a 40% saline solution was mixed with 8 fl. oz. of pure water. What is the concentration of the mixture?

24%

5) 1 oz of brand X coffee which costs $7/oz was combined with 11 oz of brand Y coffee which costs $19/oz. Find the cost per oz of the mixture.

$18/oz

6) 4 yd³ of soil containing 55% clay was mixed into 6 yd³ of soil containing 15% clay. What is the clay content of the mixture?

31%

7) 9 yd³ of soil containing 40% clay was mixed into 3 yd³ of soil containing 20% clay. What is the clay content of the mixture?

35%

8) 3 ml of a 70% alcohol solution was mixed with 9 ml of a 10% alcohol solution. What is the concentration of the mixture?

25%

9) A metal alloy weighing 4 mg and containing 88% gold is melted and mixed with 12 mg of pure gold. What percent of the resulting alloy is gold?

97%

10) 9 kg of bleached flour which costs $3/kg were combined with 3 kg of unbleached flour which costs $7/kg. Find the cost per kg of the mixture.

$4/kg

11) 4 fl. oz. of a 55% alcohol solution was mixed with 6 fl. oz. of pure water. What is the concentration of the mixture?

22%

12) 12 L of a 40% alcohol solution was mixed with 8 L of a 70% alcohol solution. Find the concentration of the new mixture.

52%

13) For her birthday party Mary mixed together 3 gal. of Brand A fruit punch and 10 gal. of Brand B. Brand A contains 50% fruit juice and Brand B contains 37% fruit juice. What percent of the mixture is fruit juice?

40%

14) 8 qt. of a 75% acid solution was mixed with 1 qt. of a 48% acid solution. Find the concentration of the new mixture.

72%

15) 2 qt. of a 38% sugar solution was mixed with 6 qt. of a 86% sugar solution. What is the concentration of the mixture?

74%

16) 16 oz. of mixed nuts containing 30% peanuts were mixed with 14 oz. of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

44%

Algebra 1   Name_____

Assignment   Date_____ Period____

1) 2 ml of a 15% alcohol solution was mixed with 8 ml of pure water. Find the concentration of the new mixture.

2) A saline solution was made by mixing 2 ml of a 58% saline solution and 1 ml of a 64% saline solution. Find the concentration of the new mixture.

3) 6 fl. oz. of a 20% acid solution was mixed with 2 fl. oz. of pure water. What is the concentration of the mixture?

4) 11 lbs. of mixed nuts containing 50% peanuts were mixed with 9 lbs. of another kind of mixed nuts that contain 30% peanuts. Peanuts are what percent of the new mixture?

5) 14 oz of bleached flour which costs $5/oz were combined with 7 oz of unbleached flour which costs $8/oz. Find the cost per oz of the mixture.

6) 8 kg of peanuts which cost $4/kg were combined with 4 kg of spices which cost $1/kg. Find the cost per kg of the mixture.

7) For her birthday party Amy mixed together 9 L of Brand A fruit punch and 6 L of Brand B. Brand A contains 34% fruit juice and Brand B contains 44% fruit juice. What percent of the mixture is fruit juice?

8) 2 gal. of a 15% sugar solution was mixed with 3 gal. of a 20% sugar solution. What is the concentration of the mixture?

9) 12 lbs. of mixed nuts containing 75% peanuts were mixed with 6 lbs. of another kind of mixed nuts that contain 60% peanuts. What percent of the new mixture is peanuts?

10) 3 qt. of a 20% saline solution was mixed with 2 qt. of a 60% saline solution. Find the concentration of the new mixture.

11) 4 m³ of soil containing 45% clay was mixed into 1 m³ of soil containing 20% clay. What is the clay content of the mixture?

12) 3 ft³ of soil containing 46% silt was mixed into 2 ft³ of soil containing 31% silt. What is the silt content of the mixture?

13) 4 lbs. of mixed nuts containing 70% peanuts were mixed with 20 lbs. of another kind of mixed nuts that contain 40% peanuts. What percent of the new mixture is peanuts?

14) 1 m³ of clay was mixed into 4 m³ of soil containing 35% clay. What is the clay content of the mixture?

15) A metal alloy weighing 3 lb. and containing 46% iron is melted and mixed with 1 lb. of a different alloy which contains 78% iron. What percent of the resulting alloy is iron?

16) 9 kg of Brand M Cinnamon was made by combining 6 kg of Indonesian cinnamon which costs $14/kg with 3 kg of Thai cinnamon which costs $11/kg. Find the cost per kg of the mixture.

Algebra 1   Name_____

Assignment

Date_____ Period_____

1) 2 ml of a 15% alcohol solution was mixed   3%
    with 8 ml of pure water. Find the
    concentration of the new mixture.

2) A saline solution was made by mixing 2 ml   60%
    of a 58% saline solution and 1 ml of a 64%
    saline solution. Find the concentration of
    the new mixture.

3) 6 fl. oz. of a 20% acid solution was mixed   15%
    with 2 fl. oz. of pure water. What is the
    concentration of the mixture?

4) 11 lbs. of mixed nuts containing 50%   41%
    peanuts were mixed with 9 lbs. of another
    kind of mixed nuts that contain 30%
    peanuts. Peanuts are what percent of the
    new mixture?

5) 14 oz of bleached flour which costs $5/oz $6/oz
    were combined with 7 oz of unbleached
    flour which costs $8/oz. Find the cost per
    oz of the mixture.

6) 8 kg of peanuts which cost $4/kg were $3/kg
    combined with 4 kg of spices which cost
    $1/kg. Find the cost per kg of the mixture.

7) For her birthday party Amy mixed together   38%
    9 L of Brand A fruit punch and 6 L of Brand
    B. Brand A contains 34% fruit juice and
    Brand B contains 44% fruit juice. What
    percent of the mixture is fruit juice?

8) 2 gal. of a 15% sugar solution was mixed   18%
    with 3 gal. of a 20% sugar solution. What is
    the concentration of the mixture?

9) 12 lbs. of mixed nuts containing 75%   70%
    peanuts were mixed with 6 lbs. of another
    kind of mixed nuts that contain 60%
    peanuts. What percent of the new mixture is
    peanuts?

10) 3 qt. of a 20% saline solution was mixed   36%
     with 2 qt. of a 60% saline solution. Find the
     concentration of the new mixture.

11) 4 m³ of soil containing 45% clay was mixed   40%
     into 1 m³ of soil containing 20% clay. What
     is the clay content of the mixture?

12) 3 ft³ of soil containing 46% silt was mixed   40%
     into 2 ft³ of soil containing 31% silt. What
     is the silt content of the mixture?

13) 4 lbs. of mixed nuts containing 70% peanuts   45%
     were mixed with 20 lbs. of another kind of
     mixed nuts that contain 40% peanuts. What
     percent of the new mixture is peanuts?

14) 1 m³ of clay was mixed into 4 m³ of soil   48%
     containing 35% clay. What is the clay
     content of the mixture?

15) A metal alloy weighing 3 lb. and containing   54%
     46% iron is melted and mixed with 1 lb. of a
     different alloy which contains 78% iron.
     What percent of the resulting alloy is iron?

16) 9 kg of Brand M Cinnamon was made by $13/kg
     combining 6 kg of Indonesian cinnamon
     which costs $14/kg with 3 kg of Thai
     cinnamon which costs $11/kg. Find the cost
     per kg of the mixture.