

5.1 Application Problems

6th
 work on ~~even~~ odd #
 questions

Solve.

1. A butcher combined hamburger which cost \$2.50 per pound with hamburger which cost \$3.10 per pound. How many pounds of each were used to make an 80-pound mixture to sell for \$2.65 per pound?
2. A butcher combined hamburger which cost \$4.40 per kilogram with hamburger which cost \$8.40 per kilogram. How many kilograms of each were used to make a mixture of 50 kg to sell for \$6.00 per kilogram?
3. How many ounces of pure gold which cost \$400 an ounce must be mixed with 20 oz of an alloy which cost \$220 an ounce to make an alloy which would cost \$300 an ounce?
4. A goldsmith combined pure gold which cost \$675 per ounce with an alloy costing \$325 per ounce. How many ounces of each should be used to make 5 oz of a gold alloy which sells for \$465 per ounce?
5. Find the selling price per pound of a mixture made from 12 lb of chocolate which cost \$4.00 per pound and 30 lb of chocolate which cost \$2.25 per pound.
6. How many kilograms of chocolates which cost \$7.00 per kilogram must be mixed with 20 kg of chocolates which cost \$3.50 per kilogram to make a box of mixed chocolates to sell for \$4.50 per kilogram?
7. A grocer combined cranberry juice which cost \$3.25 per gallon with apple juice which cost \$2.25 per gallon. How many gallons of each should be used to make 100 gal of cranapple juice to sell for \$2.50 per gallon?
8. Find the selling price per liter of a mixture made from 40 L of cranberry juice which cost \$1.00 per liter and 120 L of apple juice which cost \$.60 per liter.
9. How many pounds of walnuts which cost \$1.60 per pound must be mixed with 18 lb of cashews which cost \$2.50 per pound to make a mixture which costs \$1.90 per pound?
10. A grocer combined peanuts which cost \$2.50 per kilogram with walnuts which cost \$4.50 per kilogram. How many kilograms of each were used to make a 100-kilogram mixture to sell for \$3.24 per kilogram?

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questions

Solve.

11. Find the selling price per pound of a mixture of coffee made from 25 lb of coffee which cost \$4.82 per pound and 40 lb of coffee which cost \$3.00 per pound.
12. How many kilograms of coffee which cost \$9 per kilogram must be mixed with 16 kg of coffee which cost \$5 per kilogram to make a mixture which costs \$6.50 per kilogram?
13. How many pounds of cheese which cost \$4.20 per pound must be mixed with 12 lb of cheese which cost \$2.25 per pound to make a grated cheese topping which costs \$3.40 per pound?
14. Find the selling price per kilogram of a grated cheese mixture made from 8 kg of cheese which cost \$9.20 per kilogram and 12 kg of cheese which cost \$5.50 per kilogram.
15. To make a feed for cattle, a feed store operation combined soybeans which cost \$8 per bushel with corn which cost \$3 per bushel. How many bushels of each were used to make a mixture of 5000 bushels to sell for \$4.50 per bushel?
16. How many bushels of soybeans which cost \$7.50 per bushel must be mixed with 2400 bushels of corn which cost \$3.25 per bushel to make a mixture which costs \$4.50 per bushel?
17. Find the selling price per ounce of a mixture of 200 oz of silver which cost \$5.50 per ounce and 500 oz of an alloy which cost \$2.00 per ounce.
18. A silversmith combined a silver alloy which cost \$4.30 per ounce with an alloy which cost \$1.80 per ounce. How many ounces of each were used to make a mixture of 200 oz to sell for \$2.50 per ounce?
19. How many liters of face cream which cost \$80 per liter must be mixed with 6 L of face cream which cost \$25 per liter to make a face cream which sells for \$36 per liter?
20. Find the selling price per ounce of a face cream mixture made from 40 oz of face cream which cost \$4.40 per ounce and 100 oz of face cream which cost \$2.30 per ounce.