

1. John has 3 times as many cents as Mary, and James has 2 times as many cents as Mary. John has how many times as many cents as James?
2. If lead is $11\frac{1}{2}$ times as heavy as water, and iron is $7\frac{1}{2}$ times as heavy as water, how much heavier than iron is lead?
3. If gold is $19\frac{1}{2}$ and silver $10\frac{1}{2}$ times as heavy as water, how many times as heavy as silver is gold?
4. Gold is worth about $15\frac{1}{2}$ times as much as the same weight of silver. What would a piece of silver be worth of the weight of a twenty-dollar gold piece?
5. Mary and Julia bought together 2 pounds of candy, paying respectively 20 cents and 40 cents. How much candy ought each to have?
6. Two men buy a load of hay together, one paying $\$6\frac{1}{2}$ and the other $\$8\frac{1}{2}$. What part of the load ought each to have? If the load weighs 1.5 tons, how many pounds does each have? What is the price of the hay per ton?
7. A, B, and C own a farm together. B's share is twice as great as A's, and C's twice as great as B's. The farm is worth $\$6000$. What is each one's share worth?
8. If a cubic foot of anthracite coal weighs 96 lb., how many pounds can be put into a cart 6 ft. long, $4\frac{1}{2}$ ft. wide, and 2 ft. deep, without heaping?
9. How many flagstones, each 3 ft. long, $1\frac{1}{2}$ ft. wide, will be needed to lay a crossing 96 ft. long, 6 ft. wide?
10. How many bottles, each holding $\frac{2}{3}$ of a gill, can be filled from 18 gallons of ink?
11. A man has $13\frac{1}{2}$ A. of land. If he divides it into house-lots, each 200 ft. by 100 ft., how many lots will he have?
12. How many yards of cloth costing $12\frac{1}{2}\%$ per yard must be given in exchange for $16\frac{1}{2}$ bu. of onions at $\$1.25$ per bushel?
13. At the rate of $1\frac{1}{3}\%$ apiece, how many oranges can be bought for $\$600$? for $\$6$? for $\frac{1}{3}$ of a dollar?
14. How much will it cost to build 126.74 miles of railroad at $\$1540.75$ per rod?