

1. A man bought a horse and a cow for \$360, paying 4 times as much for the horse as for the cow. What was the cost of each?
2. A has twice as much money as B, and C has as much as A and B together. They all have \$300. How much money has each person?
3. Robert has twice as many marbles as William, and Thomas has three times as many as Robert. They all have 180 marbles. How many has each?
4. If I buy some oranges at 3¢ apiece, and the same number of bananas at 2¢ apiece, how many of each can I buy for 45¢? (Let x = number of oranges or bananas. What will represent the number of cents that the oranges cost? the bananas? all?)
5. The difference between nine times a certain number and sixteen times that number is 84. What is the number?
6. A man is twice as old as his son. If the difference in their ages is 24 years, what is the age of each?
7. Three kinds of tea were put together in equal quantities, the prices per pound being 50¢, 60¢, and 70¢ respectively. How many pounds of each are there in the mixture that is worth \$14.40?
8. A mixture of Java coffee worth 28¢ a pound, and Mocha coffee worth 30¢ a pound, is worth in all \$4.56. There is three times as much Java as Mocha. How many pounds of each in the mixture?
9. A, B, and C entered into a partnership with a capital of \$10,000. A put in twice as much as B, and C put in $\frac{1}{4}$ as much as B. What was the capital of each?
10. If $\frac{1}{4}$ of A's money is worth $\frac{3}{4}$ of B's, and B has \$400, what has A?

Simplify :

11. $(x + 5) + (x + 8)$; $(x - 9) + (x - 8)$; $(x - 9) + (x - 12)$.
12. $(3x + 10) - (2x + 5)$; $(4x - 20) - (2x - 8)$; $(12x - 30) - (6x - 20)$.
13. $(2a + 3b) + (3a + 2b)$; $(5a - 2b) + (2a - 3b)$; $(8a - 6b) + (3a - 4b)$.
14. $(8a - 4b) - (6a - 2b)$; $(9a - 6b) - (2a - 5b)$; $(12a - 18b) - (9a - 14b)$.
15. $(x + 2) \times 4$; $(3x + 8) \times 8$; $(4x - 3) \times 4$; $(2x - 8) \times 6$.