Three families share a garden. They usually clean the garden together at the end of each week, but last week, family C was on holiday, so family A spent 5 hours, family B spent 4 hours and had everything done. After coming back, family C is willing to pay \$90 to the other two families. How much should family A get? You may assume both families were cleaning at the same speed.

\$90/(5+4)*5=\$50? No no no. Think hard. The correct answer is \$60. When you figured out why, answer the following question: If family A and B spent x and y hours respectively, and family C paid \$z, how much should family A get? It is guaranteed that both families should get non-negative integer dollars.

WARNING: Try to avoid floating-point numbers. If you really need to, be careful!

Input

The first line contains an integer T ($T \leq 100$), the number of test cases. Each test case contains three integers x, y, z ($1 \leq x, y \leq 10$, $1 \leq z \leq 1000$).

Output

For each test case, print an integer, representing the amount of dollars that family A should get.

Sample Input

```
2
5 4 90
8 4 123
```

Sample Output

```
60
123
```