About sushi

By Mark Saul

Two hamachi (yellowtail tuna), three anago (eels), and one sake (salmon) cost $4. One hamachi , two anago, and three sake cost $7.

Find the price of:

1. 3 hamachi, 5 anago, and 4 sake

2. 4 hamachi, 6 anago, and 2 sake

3. 4 hamachi, 7 anango, and 7 sake

4. 5 hamachi, 8 anago, and 5 sake

5. 5 hamachi and 7 anago

6. 1 anago and 5 sake

Hints

There is not enough information to find the price of each object. However, combining given information, one can find the cost of a group of objects without knowing individual prices.

Answers

1. $11

2. $8

3. $18

4. $15

5. $5

6. $10

Solutions

Let's call two hamachi, three anago, and 1 sake *purchase 1*, and one hamachi, two anago, and three sake *purchase 2*. Purchase 1 costs $4, and purchase 2 costs $7.

1. To buy 3 hamachi, 5 anago, and 4 sake is the same as to buy both purchase 1 and purchase 2; the total cost is $11.

2. To buy 4 hamachi, 6 anago, and 2 sake is the same as to buy purchase 1 twice.

3. To buy 4 hamachi, 7 anango, and 7 sake is the same as to buy one purchase 1 and two of purchase 2.

4. To buy 5 hamachi, 8 anago, and 5 sake is the same as to buy two of purchase 1 and one purchase 2.

5. 5 hamachi and 7 anago is the difference between (c) and the sum of (b) and (d).

6. 1 anago and 5 sake is the difference between (d) and (e).

