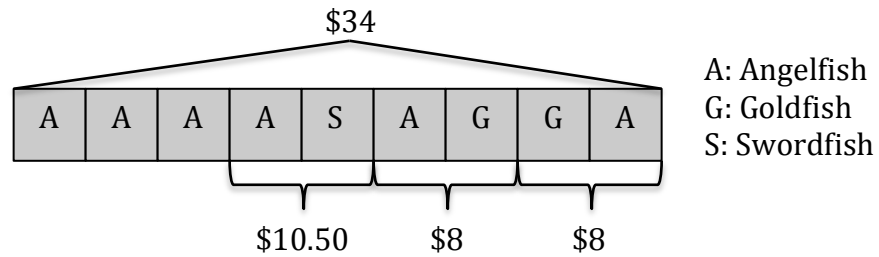We know that an angelfish and a goldfish cost $8 and that an angelfish and a swordtail cost $10.50. We also know that Adam bought were 6 angelfish, 2 goldfish, and 1 swordtail. We can make a diagram like this.

$34

A	A	A	A	S	A	G	G	A

A: Angelfish
G: Goldfish
S: Swordfish

$10.50 $8 $8

We can see from the diagram that $26.50 of the $34 are accounted for, leaving three angelfish and $7.50. WE can find out the cost of one angelfish by dividing $7.50 by 3.

$7.50 / 3 = $2.50

Once we know the price of an angelfish, we can find the price of a goldfish by subtracting.

$8 - $2.50 = $5.50

Answer: **One goldfish costs $5.50**