

Skill Set 7 – 2 Unknowns and 2 Sets of Information (Whole Numbers)

In a restaurant, Paul's family paid \$155 for 2 steaks and 3 chicken chops. William's family paid \$210 for 4 steaks and 2 chicken chops. Find the cost of 1 steak.

$$2 \text{ steaks} + 3 \text{ chicken chops} = \$155$$

Thus,

$$4 \text{ steaks} + 6 \text{ chicken chops} = \$155 \times 2 = \$310$$

$$4 \text{ steaks} + 2 \text{ chicken chops} = \$210$$

Comparing 4 steaks + 2 chicken chips with 4 steaks + 6 chicken chops,

$$6 - 2 = 4$$

$$\$310 - \$210 = \$100$$

$$4 \text{ chicken chops} = \$100$$

$$1 \text{ chicken chop} = \$100 \div 4 = \$25$$

$$\$25 \times 3 = \$75$$

$$\$155 - \$75 = \$80$$

$$\$80 \div 2 = \mathbf{\$40}$$

The cost of 1 steak is **\$40**.