

Applications: General, Lengths

General Quantities

- A. Dr. Jay has a total of 48 students in his two labs. There are 4 more students in his 8:00 a.m. lab than in his 4:00 p.m. lab. Find the number of students in each lab.

Unknowns: S = number of students in the 4:00 p.m. lab. Equation: _____
 _____ = number of students in the 8:00 a.m. lab

- B. There were three times more women participating in the Victory Run than men. A total of 60 people participated in the Run. Find the number of men and the number of women that participated.

Unknowns: M = number of men Equation: _____
 _____ = number of women

TRY:

Fido has a total of 62 treats. There are 14 more soft chewy treats than there are hard crunchy treats. Find the number of each type of treat.

Different Lengths

- A. A plumber has a pipe that is 21 feet long. He needs to cut it into two sections so that one section is half as long as the other. Find the length of each section of pipe.

Unknowns: F = length in feet of the longer pipe Equation: _____

_____ = length in feet of the shorter pipe

- B. A 24-foot chain must be cut into three pieces. The longest piece needs to be three times the length of the shortest piece. The medium-length piece needs to be twice the length of the shortest piece. Find the lengths of each piece.

Unknowns: C = length in feet of the shortest piece Equation: _____

_____ = length in feet of the medium-length piece

_____ = length in feet of the longest piece

TRY:

For Ky's art project, a cord must be cut into two pieces. The longer piece needs to be three times the length of the shorter piece. If the full length of the cord is 64 feet, find the lengths of the two pieces.