**IB Mathematical Studies Year 1**

**Practice 4E**

**#1.** A post office has two lengths of mailing tube, 45 cm and 75 cm. They have 15 more short tubes than longer tubes, and if the tubes were laid end to end they would total 1995 cm in length.

a.) Construct two equations that represent the relationships described between the long and short tubes.

b.) How many long tubes does the post office have?

c.) Haw many short tubes does the post office have?