Chickens on a Scale

Three chickens are weighed in pairs. The first pair weighs 10.6 kilograms (kg.), the second pair weighs 8.5 kg., and the third pair weighs 6.1 kg.

What would the scale read if all three chickens were weighed at the same time?

How many kilograms does each chicken weigh?

Bay Area Mathematics Project
From Fostering Algebraic Thinking Mark Nissoll Heinemann 1999.