Calculate the glomerular filtration rate (creatinine clearance) and determine the stage of chronic kidney disease in the following patients:

Woman	Man
40 years old	60 years old
body weight – 63 kg	body weight – 70 kg
serum creatinine – 70 mcmol/l	serum creatinine – 400 mcmol/l

Cockcroft-Gault Equations:

$$\text{GFR (ml/min)} = \frac{(140 - \text{age (years)}) \times \text{body weight (kg)}}{\text{serum creatinine (mcmol/l)}}$$

$$\text{GFR (ml/min)} = \frac{(140 - \text{age (years)}) \times \text{body weight (kg)}}{\text{serum creatinine (mcmol/l)}} \times 1{,}2$$

STAGES OF CHRONIC KIDNEY DISEASE		GFR*	% OF KIDNEY FUNCTION
Stage 1	Kidney damage with **normal** kidney function	90 or higher	
Stage 2	Kidney damage with **mild loss** of kidney function	89 to 60	
Stage 3a	**Mild to moderate** loss of kidney function	59 to 45	
Stage 3b	**Moderate to severe** loss of kidney function	44 to 30	
Stage 4	**Severe** loss of kidney function	29 to 15	
Stage 5	Kidney **failure**	Less than 15	

*** Your GFR number tells you how much kidney function you have. As kidney disease gets worse, the GFR number goes down.**