# Option One: TARGET HEART RATE (Equation only)

### LAND...

- 1. 220 your age = Maximum Heart Rate
- 2. Max HR x 60% = Lower End for the Target Heart Rate (land)

### NOW, for WATER...

- 3. Take the heart rate you calculated in Step 2 and subtracted 10%:
  - Land Target HR \* 90% = Target Heart Rate (for water activities)

### EXAMPLE: Person = 70 years of age

- 1. 220 70 = 150 bpm (Max HR)
- 2.  $150 \times 60\% = 90 \text{ bpm (Lower Target HR land)}$

#### ...then...

3.  $90 \times 90\% = 81 \text{ bpm (Lower Target HR - water)}$ 



# Option 2: Using the Karvonen Method (Consider the individual)

#### LAND...

- 1. 220 your age = Maximum Heart Rate
- 2. Max HR RESTING HEART RATE = W
- 3. W x 60% = Y
- 4. Y + Resting HR = Lower Target Heart Rate (land)



### NOW, for WATER...

- 5. Take the heart rate you calculated in Step 4 and subtracted 10%:
  - Land Target HR \* 90% = Lower End for the Target Heart Rate (for water activities)

### EXAMPLE: Person = 70 years of age

- 1. 220-70 = 150 (Max HR)
- 2. 150-72 = 78 (W)
- 3.  $78 \times 60\% = 47 (Y)$
- 4. 47 + 72 = 119 bpm (Lower Target HR land) ...**then**...
- 5. 119 \* 90% = 107 bpm (Lower Target HR water)

## \*RESTING HEART RATE:

Try to take Heart Rate for one week first thing in the morning (i.e. BEFORE sitting up in bed and before alarm clock rings)...
then take the week's average