## 1. $5: 2$

Working: Tall $=90 \quad$ Dwarf $=36$
common denominator (number which divides into both) is 6

90/6 $=15$ and $36 / 6=6$
Tall $=15 \quad$ Dwarf $=6$
common denominator is 3
$15 / 3=5$ and $6 / 3=2$
or
18 is common denominator for 90 and 36
$90 / 18=5$ and $36 / 18=2$

## 2. 11:7

Working: Males (with coronary heart disease) $=165$
Females(with coronary heart disease) $=105$
common denominator is 15
165/15 = 11 and 105/15 = 7
or
common denominator of 5
165/5 = 33 and 105/5 = 21
then common denominator is 3
$33 / 3=11$ and $21 / 3=7$
3. $13: 5$

Working: 90 students in total
25 with hitchhiker's thumb
Number with straight thumb $=90-25=65$
65 straight : 25 hitchhikers
common denominator is 5
$65 / 5=13$ and $25 / 5=5$

## 4. $1: 3$

Working: $\quad$ Tyrosine $=1.8$ and Serine $=5.4$ common denominator is 1.8
1.8/1.8 = 1 and 5.4/1.8 = 3
5. $5: 3$

Working: From 1000 people, 625 left thumb on top so number with right thumb on top $=1000-625=375$.
Left $=625$ and Right $=375$
common denominator is 125
625/125 $=5$ and 375/125 = 3
or
common denominator is 25
625/25 = 25 and 375/25 = 15
then common denominator is 5
$25 / 5=5$ and $15 / 5=3$
or
common denominator is 5
625/5 = 125 and 375/5 = 75
then common denominator is 5
125/5 = 25 and 75/5 = 15
then common denominator is 5
$25 / 5=5$ and $15 / 5=3$
6. 2:5

Working: rest $=260$ during exercise $=650$
common denominator is 130
260/130 $=2$ and 650/130 $=5$
or
common denominator is 10
260/10 = 26 and 650/10 = 65
then common denominator is 13
26/13 $=2$ and 65/13 = 5

## 7. $3: 2$

Working: $\quad$ Pink $=24 \quad$ White $=16$ common denominator is 8
$24 / 8=3$ and $16 / 8=2$
or
common denominator is 4
$24 / 4=6$ and 16/4 = 4
then common denominator is 2
$6 / 2=3$ and $4 / 2=2$

