Jane Doe an ASA1. She is 85 kg. Her Hgb is 10.8g/dL Her Cardiac output is 4.8L/min Her SPO2 is 92% PaO2 96 (target hgb 8gm/dL) (assume 1.34 ml O2 per gram of hgb)(.003ml O2 x PaO2)

1. What is Jane’s estimated blood volume EBV?
2. What is the Jane’s allowable blood loss?
3. What is Jane’s CaO2?
4. What is Jane’s DO2?

John Doe is 75 kg. His hgb is 10gm/dL and he has a history of coronary artery disease. His CO is 3.8L/min His SPO2 is 90% PaO2 92 (target hgb9)

1. What is johns EBV?
2. What is Johns ABL?
3. What is Johns CaO2?
4. What is Johns DO2?
5. John loses blood during surgery and you check his hgb and it dropped to 8gm/dL. SaO2 is still 90% and PaO2 is still 92. What is his new CaO2? How much did the dissolved portion drop with this hgb drop?

Round all answers to nearest hundredth

Answers Jane doe 1) 5525 ml 2) 1437ml 3)0.29+13.31=13.6 ml O2/dL 4)653 ml O2/min

John 1) 5625ml 2) 563 ml 3) 0.28+ 12.06 = 12.34 ml O2/dL 4)469ml/O2/min

9.65+0.28= 9.93ml O2/dL no change in dissolved portion.