

Math Practice – RSPT 1060
Module C-3 Properties of Gases

Name _____

PaO₂ / PAO₂ Ratio (a / A Ratio)

Normal Value >.75

#	PaO ₂	PAO ₂	Ratio (decimal or percent)	Good or bad?
1	80	110	$\frac{PaO_2}{PAO_2} = \frac{80}{110} = 0.73$	Just below Normal.
2	70	200	$\frac{PaO_2}{PAO_2} = \frac{70}{200} = 0.35$	Below normal.
3	60	350	$\frac{PaO_2}{PAO_2} = \frac{60}{350} = 0.17$	Below normal.
4	75	420	$\frac{PaO_2}{PAO_2} = \frac{75}{420} = 0.18$	Below normal.
5	70	500	$\frac{PaO_2}{PAO_2} = \frac{70}{500} = 0.14$	Below normal.

PaO₂ / FIO₂ Ratio Normal > 400

#	PaO ₂	FiO ₂	Ratio (whole number)	Good or bad?
1	80	0.21	$\frac{PaO_2}{FIO_2} = \frac{80}{.21} = 381$	Just below Normal.
2	65	0.4	$\frac{PaO_2}{FIO_2} = \frac{65}{.40} = 162.5$	Below normal.
3	100	0.6	$\frac{PaO_2}{FIO_2} = \frac{100}{.60} = 166.7$	Below normal.
4	150	0.8	$\frac{PaO_2}{FIO_2} = \frac{150}{.8} = 187.5$	Below normal.
5	200	1.0	$\frac{PaO_2}{FIO_2} = \frac{200}{1.0} = 200$	Below normal.