

Biology

1. Pancreas
2. Kidney
3.
 - a. Diabetic Ketoacidosis
 - b. Liver
 - c. Faster respiration expels acidic metabolites which results in more basic blood
4.
 - a. Hydrostatic pressure will increase, osmotic pressure will decrease
 - b. $\frac{2}{3}$
 - c. $\frac{1}{9}$
5.
 - a. z
 - b. $\frac{111}{10}$

Mathematics

1. 72
2. $\frac{61}{175}$
3. $\frac{85}{4}$
4. 14
5. 72180700

Physics

1. 200
2. $\sqrt{5}$ m/s
3. $2\sqrt{10}$ m/s
4. $\frac{3\sqrt{89}}{2}$ m/s
5. 9 ohms

Chemistry

1.
 - a. Molecular formula- $C_6H_8O_6$; empirical formula- $C_3H_4O_3$
 - b. 176.12 g/mol
2. 0.542 atm
3. 0.292 g
4.
 - a. 8
 - b. 3.51 g/cm^3
- 5.

- a. 3.49
- b. 6.4 mL (6.5 and 6.6 are also acceptable)

Earth Science

- 1. A
- 2. Iron three
- 3. Winters have lower temperature and more precipitation than summers
- 4. Doppler
- 5. Relatively far from the sun