Are You Ready? Possible Solutions

1. The chart should look like the following.

Number	Rational or Irrational
0.3	rational
π	irrational
0.6	rational
8	rational
−5.25	rational
$\sqrt{25}$	rational
$\sqrt{5}$	irrational
$2\frac{2}{3}$	rational
-8	rational
1.404 004 004	irrational
4 ²	rational
0.142 857 142 857 1	rational

- 2. a. ii
 - b. i
 - c. iii
- 3. a. The following set includes all real numbers with the exception of -1 and 2.
 - b. The following set of real numbers is described in words as the set of real numbers between
 - -2 and 5, not including -2 but including 5.
 - c. The following set of real numbers is described in words as the set of real numbers less than or equal to 3.
 - d. The following set of real numbers is described in words as the set of real numbers strictly between –1 and 1, as well as those real numbers strictly greater than 2.
- 4. a. amount of energy used
 - b. day of the year
 - c. number of tickets sold
 - d. duration of exercise
 - e. height