## Section 1.1 Focus Exercises

1. Find the absolute value of each number, as indicated.
a) $|12|=$
b) $|0|=$
c) $|-9|=$
d) $\left|-\frac{3}{5}\right|=$
e) $|-2.5|=$
f) $|\sqrt{10}|=$
2. Write each decimal number as a fraction, thereby making it a rational number. Simplify the fraction completely.
a) $.03=$
b) $7.5=$
c) $-0.105=$
3. Write each repeating decimal as a fraction; reduce the fraction if possible.
a) . $8888888 \ldots$
b) . 45
c).$\overline{216}$
d) . $72727272 \ldots$
e).$\overline{06}$
f) . $540540540 \ldots$
4. Decide whether each number is rational or not. State why it is or is not.
a) $-\frac{4}{5}$
b) $\frac{0}{4}$
c) $2.031031031031 \ldots$....
d) $5.1929394959 \ldots$
e) 0.590143776
5. Decide into which category or set of the real numbers each fits. Put a check mark in the box(es) that describe that number. Check all that apply.

|  | Natural | Whole | Integer | Rational | Irrational | Undefined |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Real |  |  |  |  |  |  |
| a) |  |  |  |  |  |  |

