Define each of the following terms (found in the back of your textbook).
Natural Numbers : $\qquad$

Whole Numbers: $\qquad$
$\qquad$
Integers : $\qquad$
$\qquad$
Rational Numbers : $\qquad$

Irrational Numbers : $\qquad$
$\qquad$
Real Numbers : $\qquad$
$\qquad$

Prime Numbers : $\qquad$
$\qquad$
Composite Numbers : $\qquad$

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Complete the chart:



Use the information given to complete the chart :

| Set of Numbers | Short Form | Mathematical Description | English Description |
| :---: | :---: | :---: | :---: |
| NATURAL |  |  |  |
|  |  | $\{\ldots-3,-2,-1,0,1,2,3 \ldots\}$ |  |
| IRRATIONAL |  |  |  |
|  |  |  |  |

$\qquad$
Complete the chart by placing a check mark, ( ), in the space to indicate that the number belongs to that set:

|  | $N$ | W | I | Q | $\overline{\mathrm{Q}}$ | R |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | X | $\checkmark$ |
| $\sqrt{3}$ |  |  |  |  |  |  |
| $\frac{3}{4}$ |  |  |  |  |  |  |
| $\sqrt{144}$ |  |  |  |  |  |  |
| $3 \frac{1}{2}$ |  |  |  |  |  | \% |
| -6.5 |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |
| 0.313113111... |  |  |  |  |  |  |
| $-\sqrt{8}$ |  |  |  |  |  |  |
| $5 . \overline{365}$ |  |  |  |  |  |  |
| 3.876 |  |  |  |  |  |  |
| 7.654826343... |  |  |  |  |  |  |
| $\frac{\sqrt{5}}{2}$ |  |  |  |  |  |  |
| -6 |  |  |  |  |  |  |
| 3.2 |  |  |  |  |  |  |
| -0.33 |  |  |  |  |  |  |

## General Conclusions:

1. All positive perfect square roots such as $\qquad$ will belong to the following number sets:
2. All negative perfect square roots such as $\qquad$ will belong to the following number sets:
3. The square root of all non-perfect squares such as $\qquad$ will belong to the following number sets:
4. All repeating decimals such as $\qquad$ will belong to the following number sets:
5. All terminating decimumbers such as $\qquad$ will belong to the following number sets:
6. All undefined numbers such as $\qquad$ will belong to:
7. Will any negative number belong to the set of integers? Explain.

Number Sets
Name: $\qquad$



