-Five minutes of silence Warmup:

1. Classify each number as either rational or irrational:
2. For each rational number from the list above. State whether its an integer, whole or natural number. (Choose all that apply)

$$
\text { 4: } N, W, \operatorname{In}
$$

3.9: None

$$
\frac{3}{4}: \text { None }
$$

## The Real Number System


-5: $R$, $I_{n}$
1/3: $R$
55: Ir
o: $R$, In, $W$
$-7.3 \overline{4}: R$
0.67 R

6: $R, I n, W, N$

## Which number is a real number that is not a

 rational number?A. $0 . \overline{29}$
B. $-1 / 9$
C. 9
(D.) 7

Which number is a whole number?
A. 6/7
B. -22
C. $\sqrt{30}$
(D) $20 / 5=4$

What number is not an integer?
(A) -3.7
B. $100 \%=1.00=1$
C. 5
D. $15 / 3=5$

## Sometimes, Always or Never

| Statement | Always, sometimes, NEVER | Example \& NonExample |
| :---: | :---: | :---: |
| 1. If a number contains decimal places, then it is an irrational number. | Sometimes | $\begin{aligned} & \text { True: } 3.74 \ldots \\ & \text { False: } 5.13 \end{aligned}$ |
| 2. If a number is an integer, then it is a rational number. | Always |  |
| 3 . If a number is a whole number, then it is a natural number. | Sometimes | $\begin{aligned} & \text { True: } 7 \\ & \text { False: } 0 \end{aligned}$ |
| 4. If a number is a repeating decimal, then it is an irrational number. | Never |  |
| 5. If a number is rational, then it is an integer. | Sometimes | TME:-S False: -5.6 |
| 6. If a number contains decimal places, then it is an integer. | Never |  |
| 7. If a number is a real number, then it is a whole number. | Sometims | $\begin{aligned} & \text { Tre: } 5 \\ & \text { False: }-5 \end{aligned}$ |

## Sorting Activity

