

## 2.1 Classifying Numbers

Date \_\_\_\_\_ Period \_\_\_\_\_

**List all sets to which each number belongs. Circle its most specific set.**

1)  $-7$

2)  $\sqrt{41}$

3)  $12$

4)  $\pi$

5)  $0.65656565\dots$

6)  $\frac{97}{4}$

7)  $\sqrt{169}$

8)  $\frac{65}{5}$

**Name to most specific set to which each number belongs.**

9)  $\sqrt{64}$

10)  $-\frac{13}{7}$

11)  $1$

12)  $4.2749236586947\dots$

**Identify the real and imaginary part of each complex number.**

13)  $6 + 12i$

14)  $4 - 8i$

**Simplify each radical expression.**

15)  $\sqrt{-4}$

16)  $\sqrt{-64}$

17)  $\sqrt{-9}$

18)  $\sqrt{-400}$

19)  $\sqrt{-256}$

20)  $\sqrt{-196}$