

UB SAT 2009
Worksheet #1
Number Sets

In the problems below you are given a subset from the number sets on Notes #1. Use the notes to name all of the possible number sets each subset can be a part of.

1. $\{1, 2, 3, 4, 5\}$
2. $\left\{4.5, 100, 4567, \frac{197}{3}\right\}$
3. $\{-4, 5, 7, -109\}$
4. $\{-2, -1, 0\}$
5. $\left\{-2.3, -6, -\frac{8}{9}, -\sqrt{4}\right\}$
6. $\{1, 2, 4.567, \sqrt{5}\}$
7. $\{\sqrt[4]{8}, e^{-1}, \sqrt{3}\}$
8. $\left\{-\sqrt{-5}, 6, 4.5, \frac{109}{45}\right\}$
9. $\{2, 4, 8, -10, 102456\}$
10. $\{0\}$

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Answers

1. Positive, Nonnegative, Whole, Natural, Integers, Rational, Real, and Complex.
2. Positive, Nonnegative, Rational, Real, and Complex.
3. Integers, Rational, Real, and Complex.
4. Integers, Rational, Real, and Complex.
5. Negative, Rational, Real, and Complex.
6. Positive, Nonnegative, Real, and Complex.
7. Positive, Nonnegative, Irrational, Real, and Complex.
8. Complex.
9. Even, Integers, Rational, Real, and Complex.
10. Nonnegative, Even, Whole, Integers, Rational, Real, and Complex.