Mr. Gmerek

Algebra 2

Problem Set 1.1



1. Define:
   1. **Whole numbers**
   2. **Integers**
   3. **Rational Numbers**
   4. **Irrational Numbers**



1. Create a hierarchy of the sets of numbers listed in number 1.
2. Label the following numbers on a number line:



1. What is an **opposite** in mathematics?
   1. What is a **reciprocal**?
      1. Why do we use reciprocals?
2. Evaluate:
   1. The difference of 7 and -10
   2. The quotient of -24 and 1/3



1. Convert 88 feet per second to miles per hour.



1. The fastest moving insect is the large tropical cockroach. It scurries at speeds of up to 2.3 feet per second.
   1. Write an expression that represents how many miles a roach can travel in 1 hour.
   2. How many miles can a roach travel in 2.5 hours?
2. Joe goes to the store to buy zaks. Zaks cost 10 cents each. Joe doesn't have any money but he does have 10 zoes. Four zoes sell for 20 cents. How many zaks can he buy?