

```
(+):: a -> a -> a
    (/):: a -> a -> a
    (*):: a -> a -> a
    abs:: a -> a
    signum:: a -> a
    negate:: a -> a

-- Field
class (Num a)=> Fractional a where
    (/):: a -> a -> a

class (Num a, Ord a)=> Real a where

-- Integral Domain, Euclidean Domain
-- div, mod, gcd, lcm, etc
class (Real a, Enum a)=> Integral where
```

$1 \quad { m from Integral}$

-- Ring

class Num a where

```
-- convert Integral to Num fromIntegral::(Integral a, Num b)=>a->b
```

Converting from and between integral-types (integer-like types)

- Integer which are arbitrary-precision integer
- Int which fixed-width machine-specific integers, its range of Int is -2^{31} to $+2^{31}-1$

3 Converting from and between fractional-types