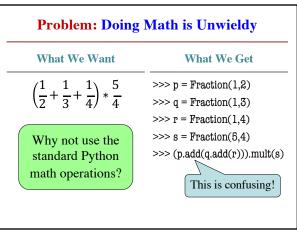
## **Case Study: Fractions**

- Want to add a new *type* 
  - Values are fractions: ½, ¾
    Operations are standard
  - multiply, divide, etc.
  - **Example**:  $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$
- Can do this with a class
   Values are fraction objects
  - Operations are methods
- Example: fracl.py
- class Fraction(object):
   """Instance is a fraction n/d"""
   # INSTANCE ATTRIBUTES:
   # \_numerator: an int
   # \_denominator: an int > 0
  - def \_\_init\_\_(self,n=0,d=1): """Init: makes a Fraction""" self.\_numerator = n
  - self.\_denominator = d

1



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