

DECIMALS

You used Base-10 pieces in MTH 151 to model whole numbers. The value of a unit was 1, long had the value of 10, flat was 100, etc. We can use the Base-10 pieces to model decimals by simply assuming different values of these objects:

1. Assume that the value of a long is 1.

- a. What is a unit? (Write it as a fraction.)
- b. What is a unit? (Write it as a decimal.)
- c. What are 5 units (fraction and decimal)?
- d. What are 3 units (fraction and decimal)?
- e. What are 23 units?
- f. Represent the number 3.4 . Draw it here:

2. A flat = 1.

- a. What is a long? Fraction: Decimal:
- b. What is a unit? Fraction: Decimal:
- c. What are 5 units (fraction and decimal)?
- d. What are 3 longs (fraction and decimal)?
- e. What are 23 units?
- f. Represent the number 2.47. Draw it here:

3. A block = 1.

- a. What is a flat? Fraction: Decimal:
- b. What is a long? Fraction: Decimal:
- c. What is a unit? Fraction: Decimal:
- d. What are 5 units (fraction and decimal)?
- e. What are 3 longs (fraction and decimal)?
- f. What are 4flats, 5longs and 3 units?