

Decimals, Fractions & Percentages

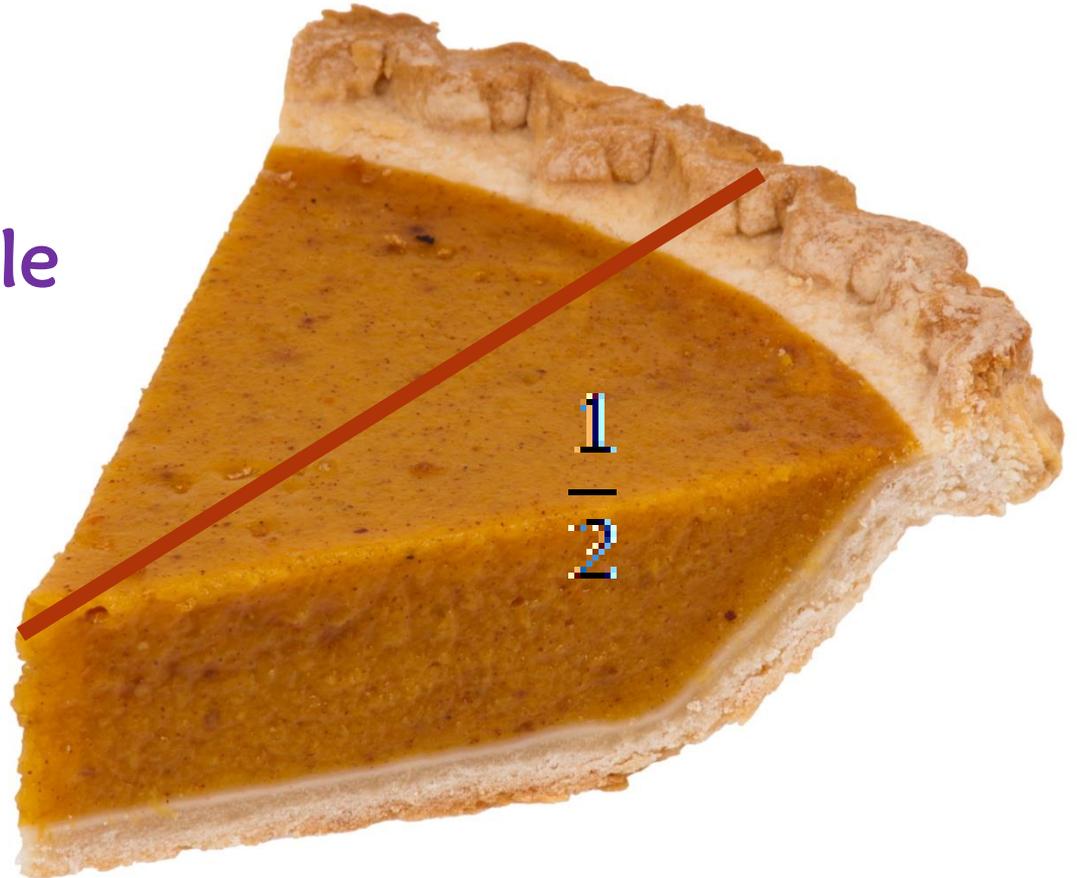


Fractions

- Numbers that are a ratio of two numbers

$$\frac{1}{2} = 1:2$$

a part of a whole



Decimals

- Decimals are used for numbers between whole numbers

pi = 3.14
0.158

TENTHS

HUNDRETHS

THOUSANDTHS

Decimal to Fraction

- Write: decimal/1
- Multiply the numerator and denominator by 10 for every number after the decimal point
- Simplify (or reduce) the fraction

Decimal to Fraction

0.4

$$\frac{0.4}{1}$$

$$\frac{0.4}{1} \times \frac{10}{10}$$

$$\frac{4}{10}$$

$$\frac{2}{5}$$

0.35

$$\frac{0.35}{1}$$

$$\frac{0.35}{1} \times \frac{100}{100}$$

$$\frac{35}{100}$$

$$\frac{7}{20}$$

Fraction to Decimal

- Divide the numerator (top number) by the denominator (bottom number)

Fraction to Decimal

$$\frac{7}{10}$$

$$7 \div 10 = 0.7$$

$$\frac{20}{100}$$

$$20 \div 100 = 0.2$$

Percentages

- Percent means *per hundred*

$$20\% = \frac{20}{100}$$



Decimal to Percentage

- Move the decimal two places to the right
- OR
- Multiply the decimal by 100

Decimal to Percentage

0.85

0.85


85%

0.2

0.20


20%

Relationship

Question:

How are FRACTIONS, DECIMALS and PERCENTAGES related?

Answer:

They all represent parts of a whole

Online Activity

- Go to www.khanacademy.org
- Search for:
 - Representing a number as a decimal, percent and fraction
- Click on the second link
- View the video
- Click on “Practice this concept”