

# Grade 3 Mathematics

## Vocabulary Word Wall Cards

Mathematics vocabulary word wall cards provide a display of mathematics content words and associated visual cues to assist in vocabulary development. The cards should be used as an instructional tool for teachers and then as a reference for all students. **The cards are designed for print use only.**

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[Equal](#)

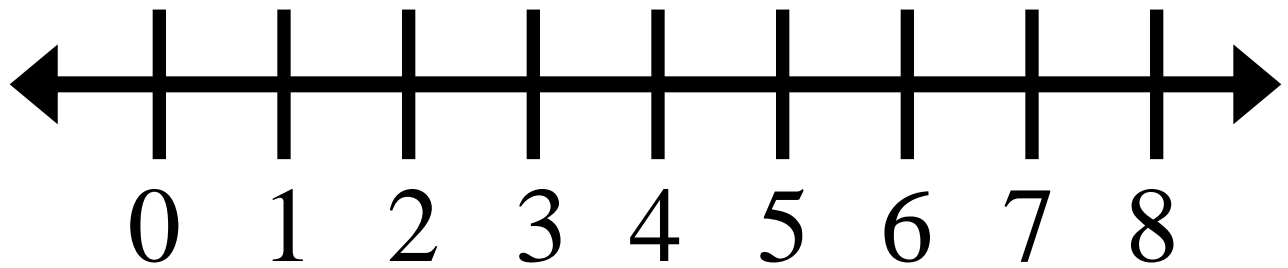
[Not equal](#)

[Pattern: Growing and Input/output Table](#)

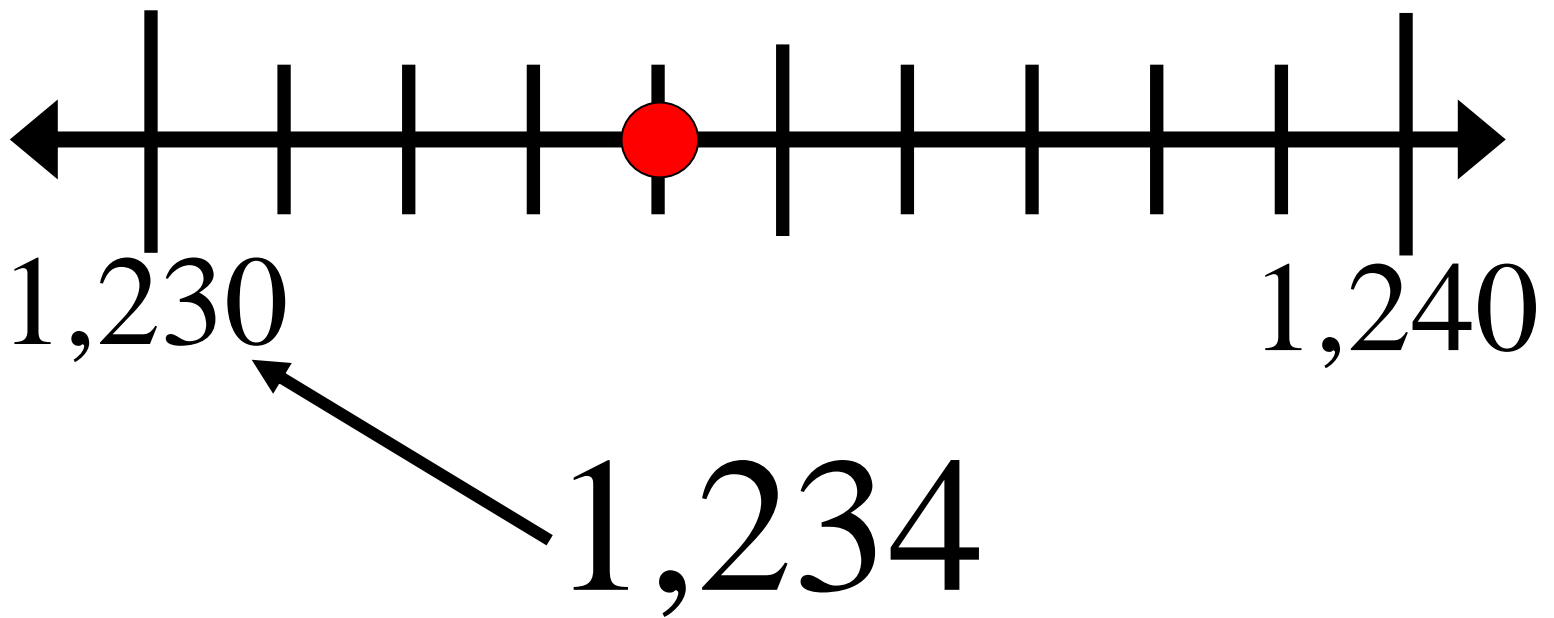
[Expression](#)

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# Number Line



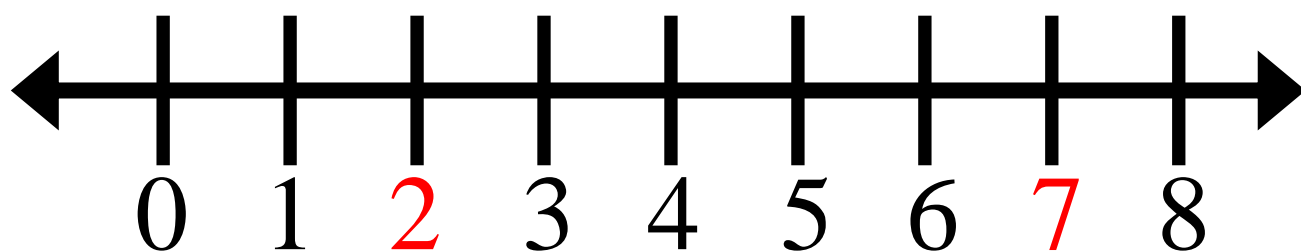
# Round



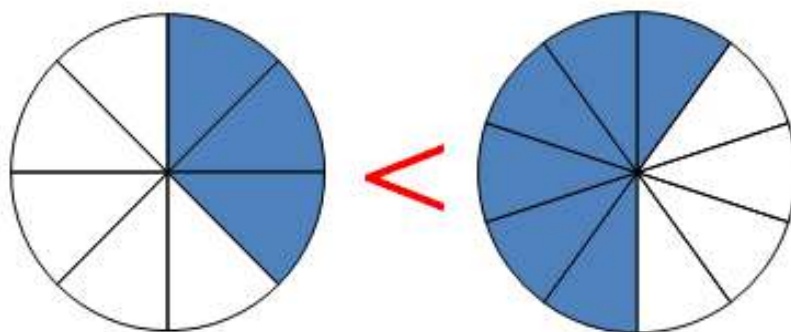
Round 1,234 to the  
nearest ten.

# Less Than

<



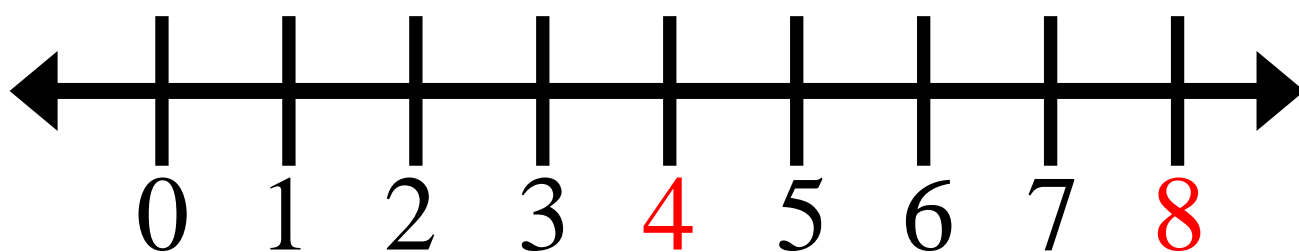
$$2 < 7$$



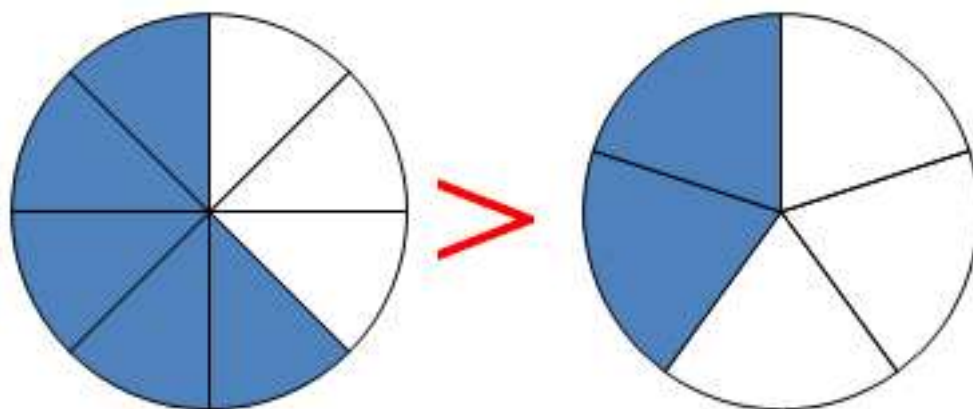
$$\frac{3}{8} < \frac{6}{10}$$

# Greater Than

$>$



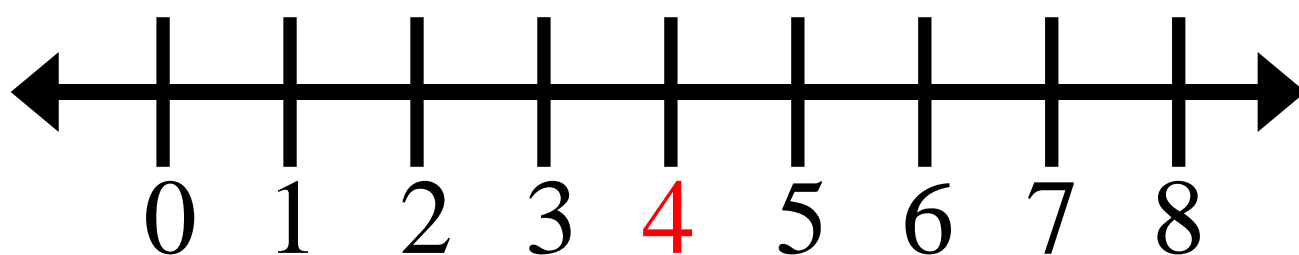
$$8 > 4$$



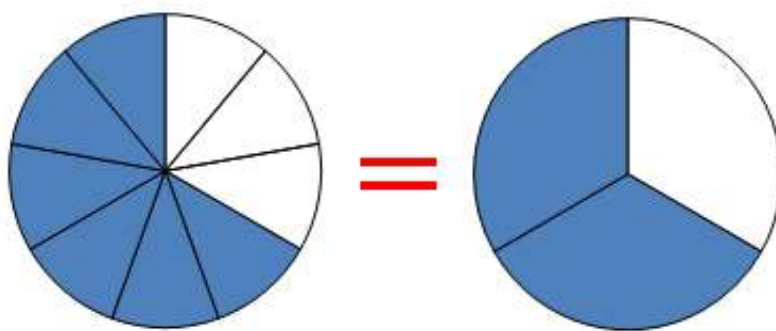
$$\frac{5}{8} > \frac{2}{5}$$

# Equal To

=



$$4 = 4$$



$$\frac{6}{9} = \frac{2}{3}$$

# Place Value Position

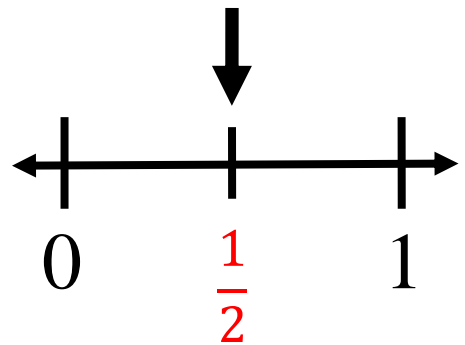
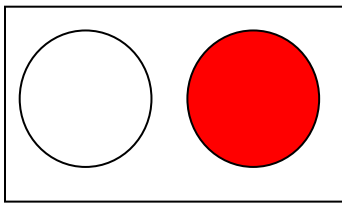
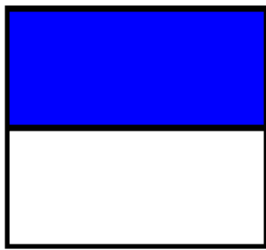
Hundred Thousands	Ten Thousands	One Thousands		Hundreds	Tens	Ones
2	3	5	,	4	8	6



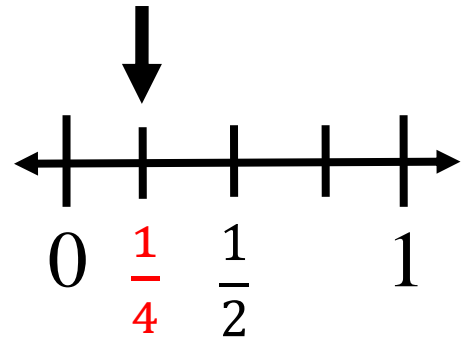
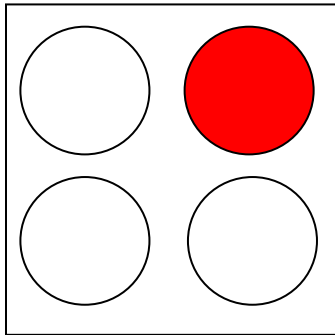
# Fraction:

## Models for one-half and one-fourth

$\frac{1}{2}$



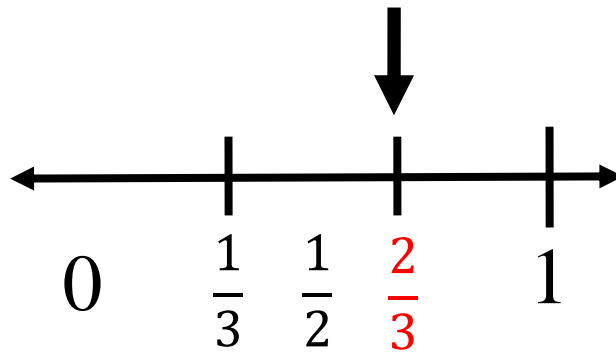
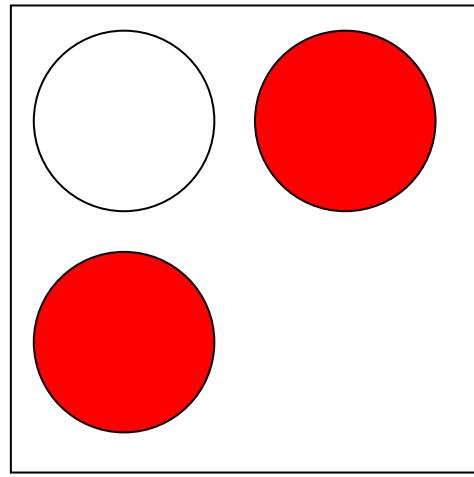
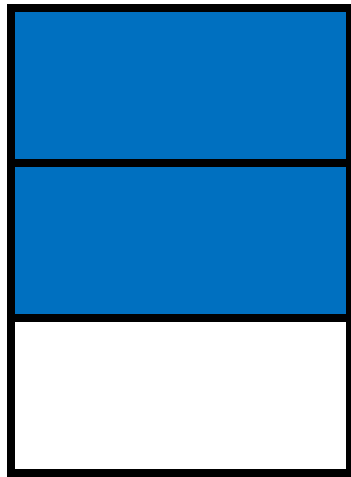
$\frac{1}{4}$



# Fraction:

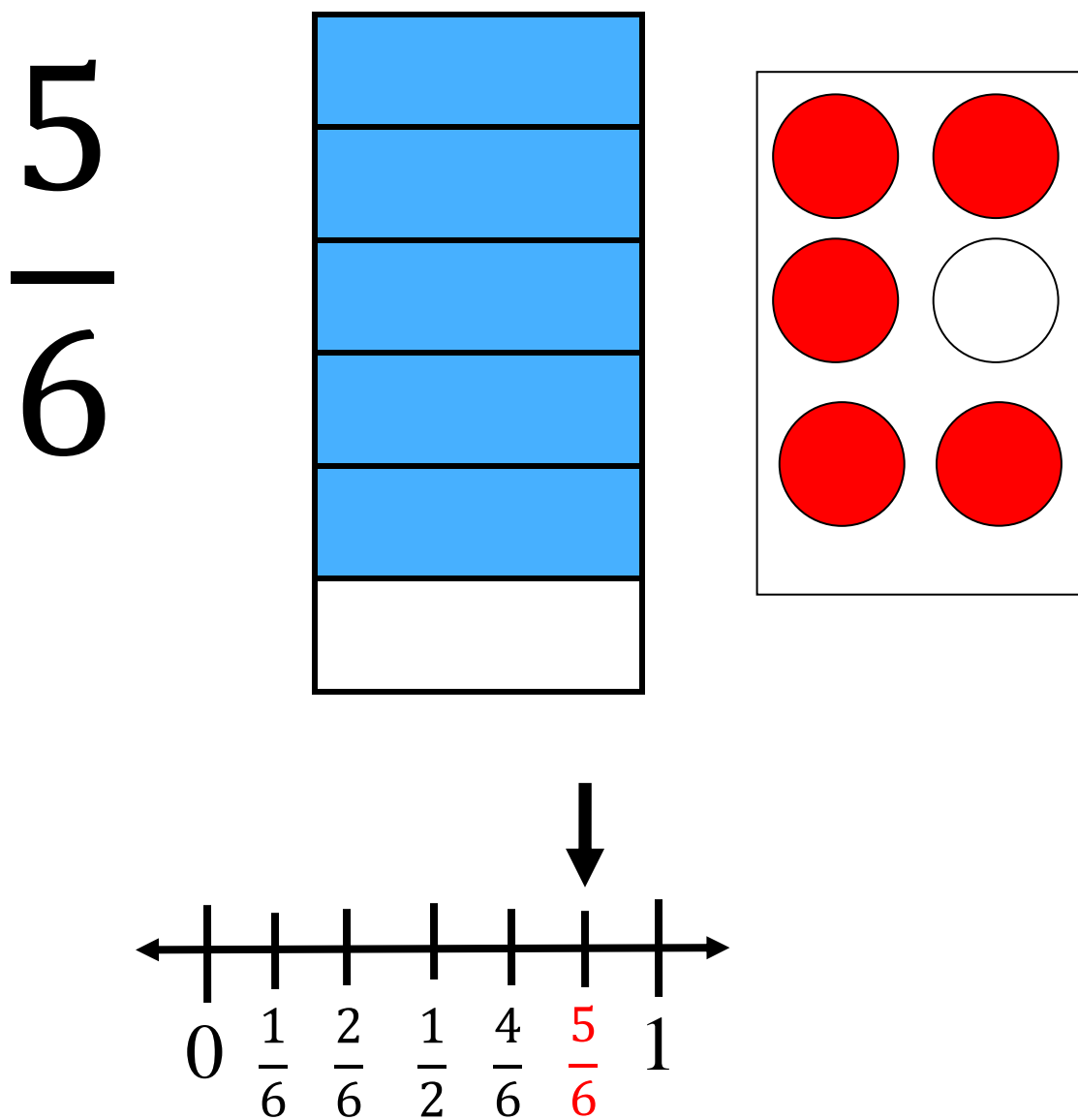
## Models for two-thirds

$\frac{2}{3}$



# Fraction:

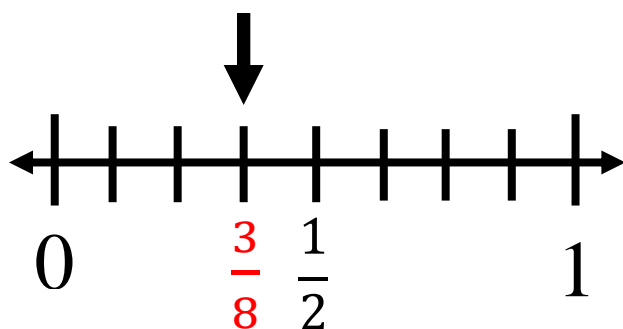
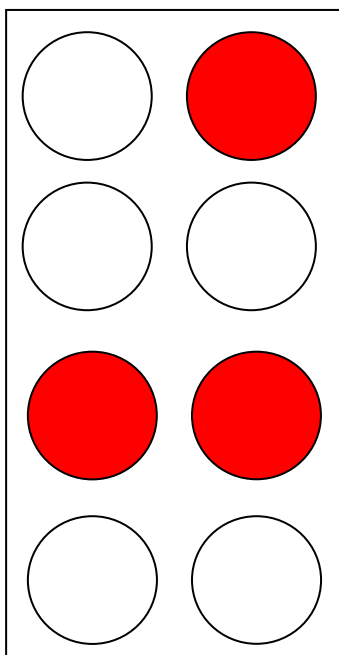
## Models for five-sixths



# Fraction:

## Models for three-eighths

$$\frac{3}{8}$$



# Numerator/ Denominator

numerator 2

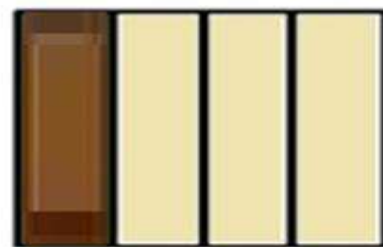
(number of equal  
parts being  
considered)

—

3 denominator

(number of equal  
parts in the whole)

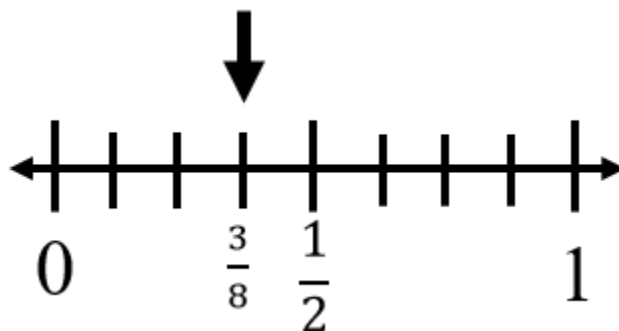
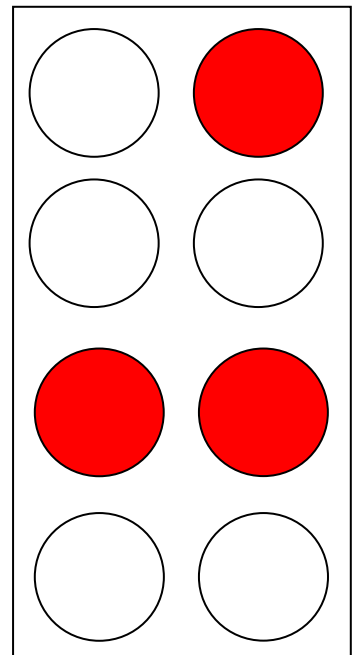
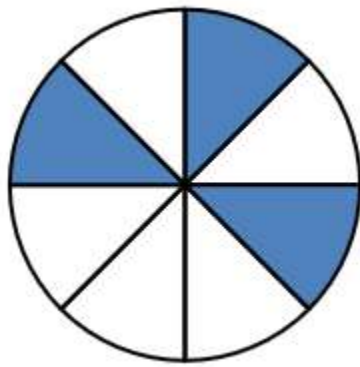
The candy bar was divided into 4 equal parts. Three friends ate 3 pieces of the candy bar, so  $\frac{3}{4}$  of the candy bar has been eaten.



# Proper Fraction:

Fraction less than one  
(numerator is less than the  
denominator)

$$\frac{3}{8}$$

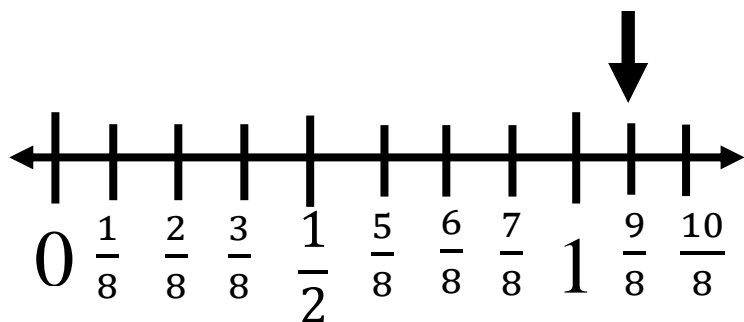
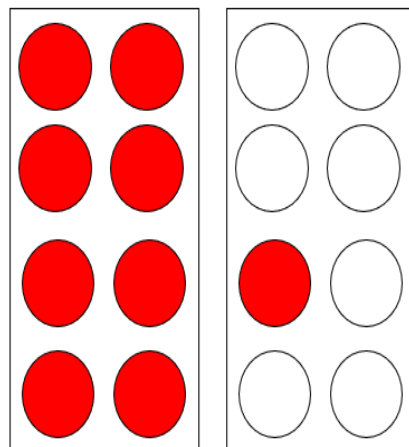
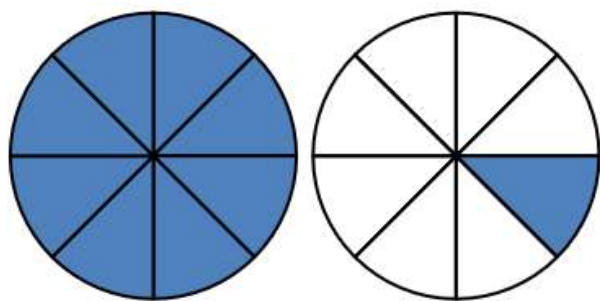


# Improper Fraction:

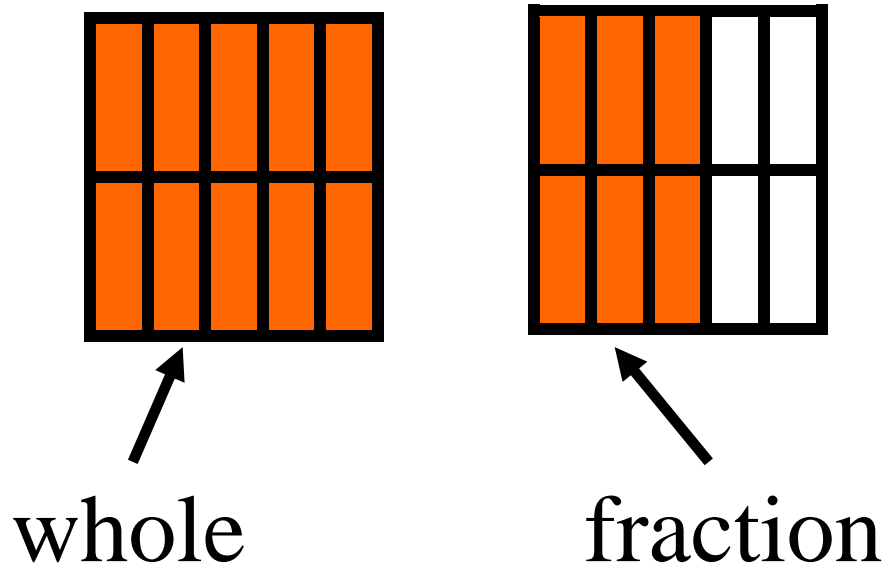
Fraction greater than or equal to one

(numerator is equal to or greater than the denominator)

$$\frac{9}{8}$$



# Mixed Number

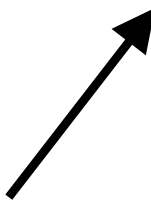


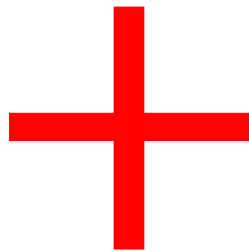
$$1\frac{6}{10}$$



# Addition

$$465 + 124 = 589$$

  
sum




plus

# Subtraction

$$465 - 124 = 341$$

difference





minus

# Regroup/ Rename

26 is 1 ten and 16 ones

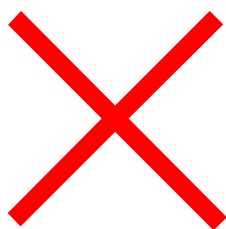
1 ten 16 ones

$$\begin{array}{r} \cancel{26} \\ - \quad 9 \\ \hline 17 \end{array}$$

# Multiply

$$3 \times 4 = 12$$

  
product



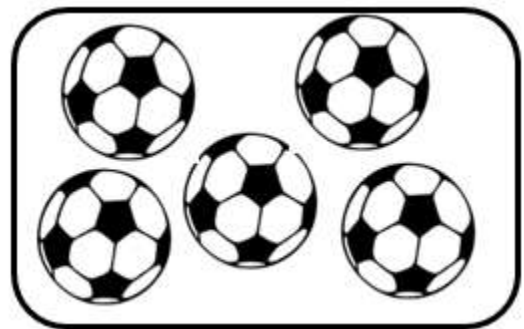
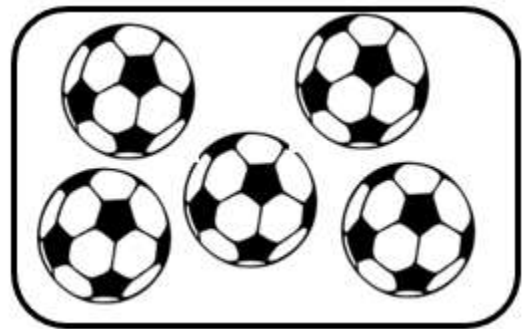
times

# Multiplication:

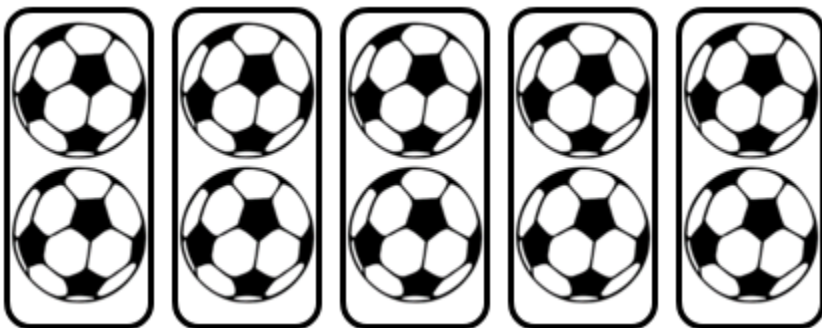
## Set Model

$$2 \times 5$$

2 groups of 5  
soccer balls  
in each group



$$5 \times 2$$

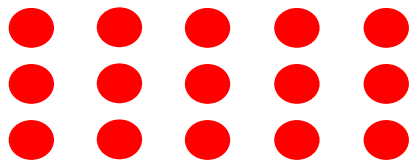


5 groups of 2  
soccer balls  
in each group

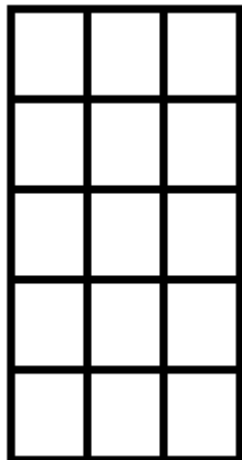
# Multiplication:

## Array Model

(an arrangement of objects in rows and columns)

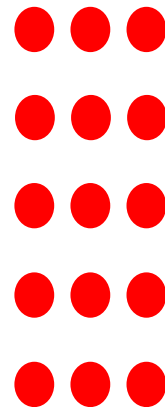


$$3 \times 5$$

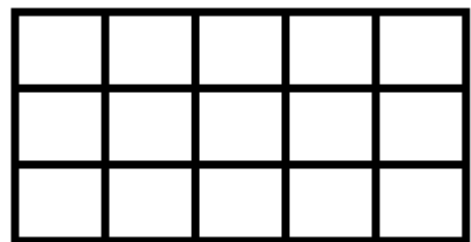


5 rows of 3

$$5 \times 3$$



3 rows of 5

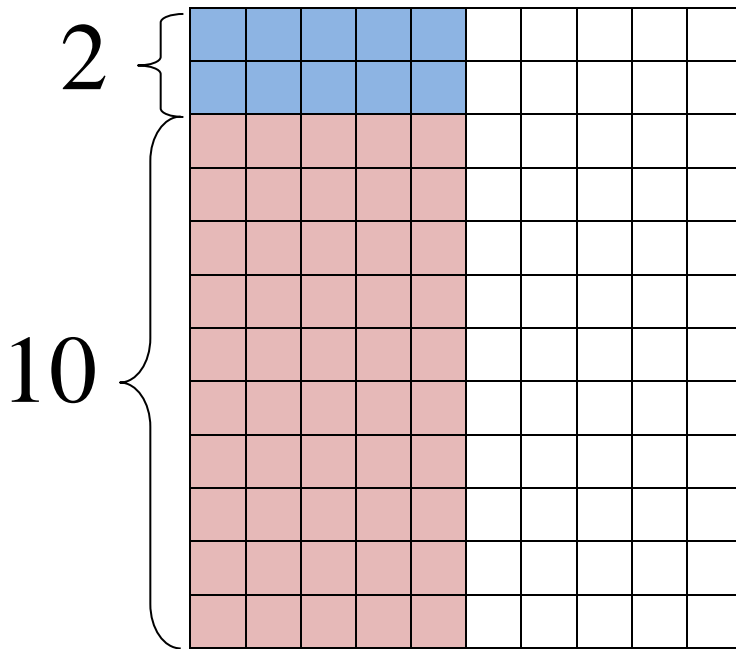


# Multiplication:

## Area (array) Model

$$12 \times 5$$

5



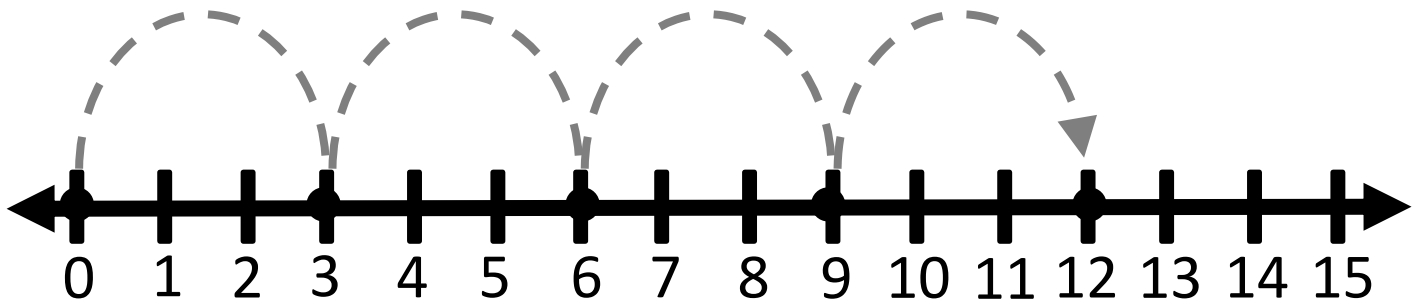
$$\begin{array}{r} 10 \times 5 = 50 \\ + 2 \times 5 = 10 \\ \hline 60 \end{array}$$

$$12 \times 5 = 50$$

# Multiplication: Number Line Model

$$4 \times 3$$

$$4 \times 3 = 12$$



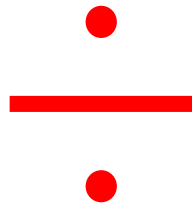


# Divide

$$\begin{array}{r} 3 \\ 4 \overline{)12} \end{array}$$

$$12 \div 4 = 3$$

quotient 

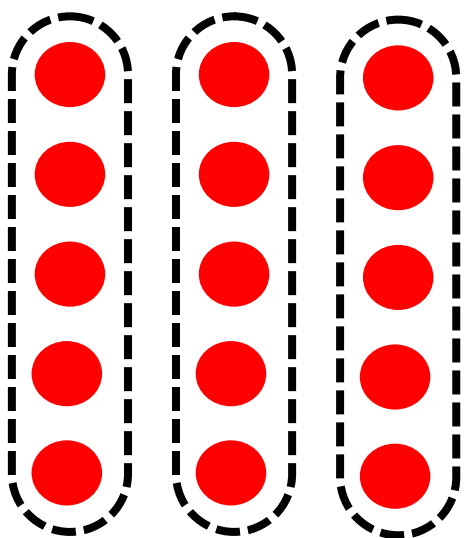
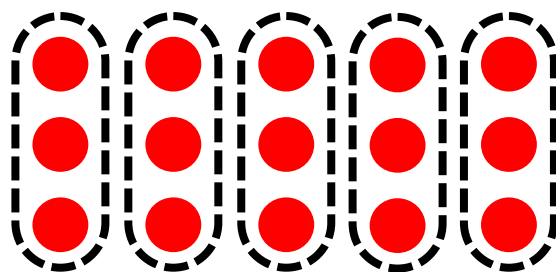


divided by

# Division:

## Array Model

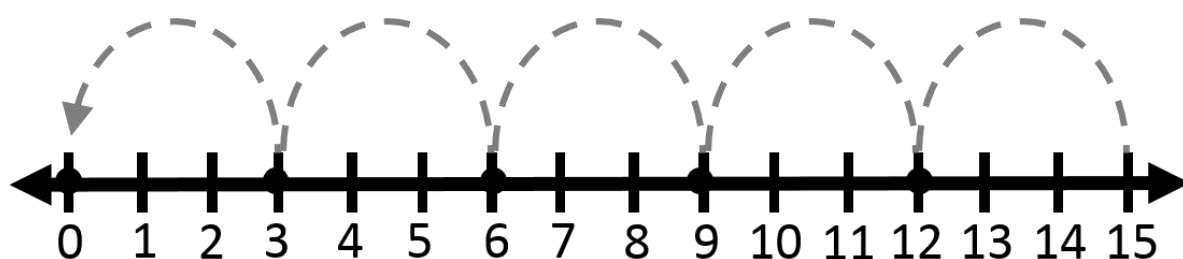
15 candies – if each friend is given 3, there is enough to share with 5 friends



15 candies to be shared among 3 friends means each friend will receive 5 candies

# Division:

## Number Line



$$15 \div 3 = 5$$

The race is 15 miles long. If each team member will run 3 miles, 5 team members will be needed.

# Related Facts:

## Addition /Subtraction

$$5 + 1 = 6$$

$$1 + 5 = 6$$

$$6 - 1 = 5$$

$$6 - 5 = 1$$

# Related Facts: Multiplication/Division

$$2 \times 3 = 6$$

$$3 \times 2 = 6$$

$$6 \div 3 = 2$$

$$6 \div 2 = 3$$

# Equation:

## Number Sentence

$$8 = 3 + 5$$

$$6 - 2 = 4$$

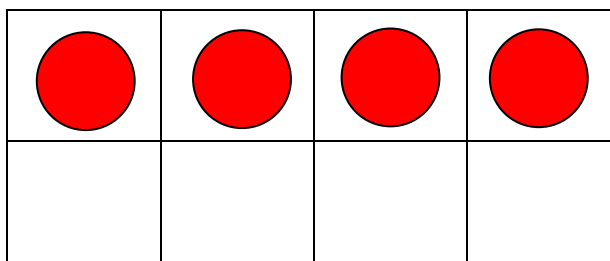
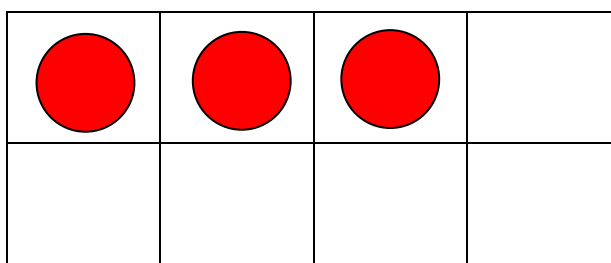
$$17 + 13 + 9 = 39$$

$$4 \times 3 = 14 - 2$$

# Fraction:

## Addition

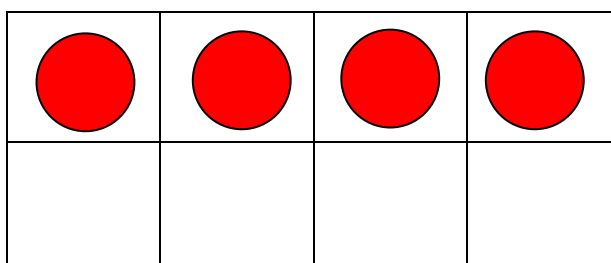
$$\begin{array}{r} 3 \\ - \\ 8 \\ + \\ 4 \\ - \\ 8 \\ \hline 7 \\ - \\ 8 \end{array}$$



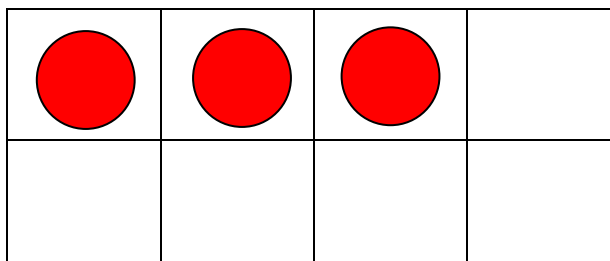
# Fraction:

## Subtraction

4  
—  
8



— 3  
—  
8  
—  
1  
—  
8





# Penny



1¢

one cent

\$0.01

# Nickel



5¢

five cents

\$0.05

# Dime



10¢

ten cents

\$0.10

# Quarter



25¢

twenty-five cents

\$0.25

# Dollar



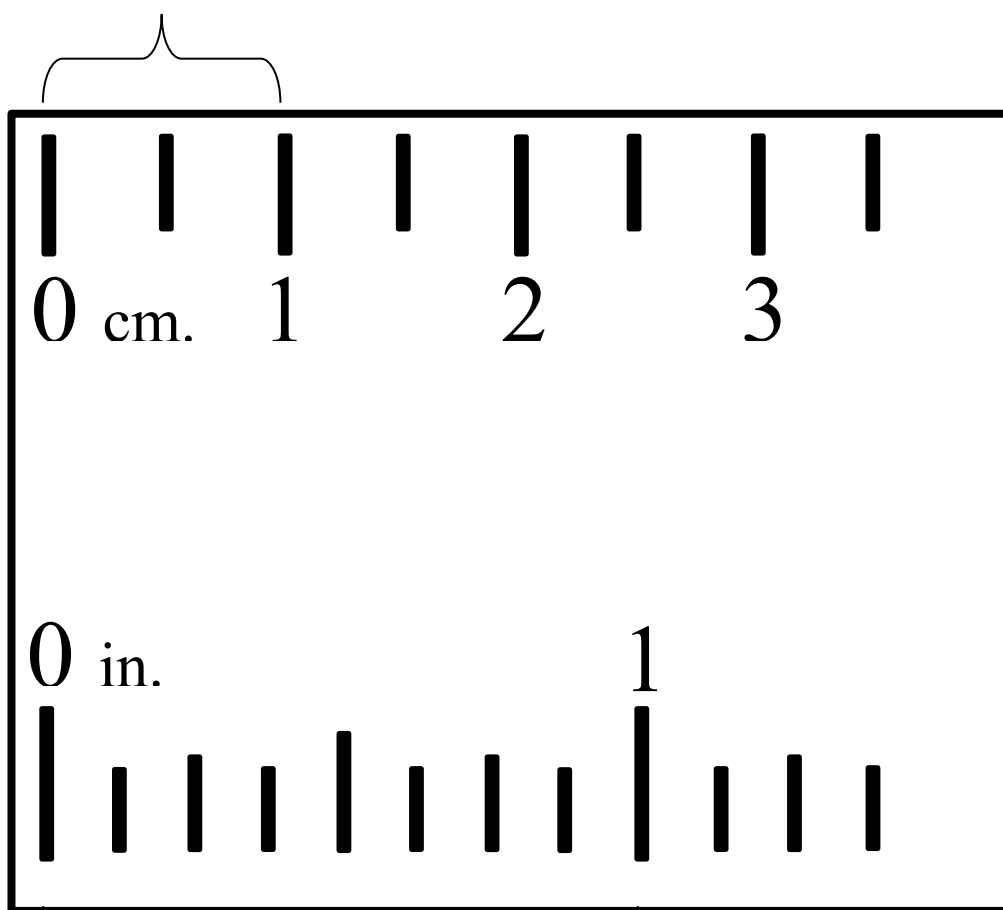
## \$1.00

## One hundred cents

# Ruler:

## Centimeter and Inch

one centimeter

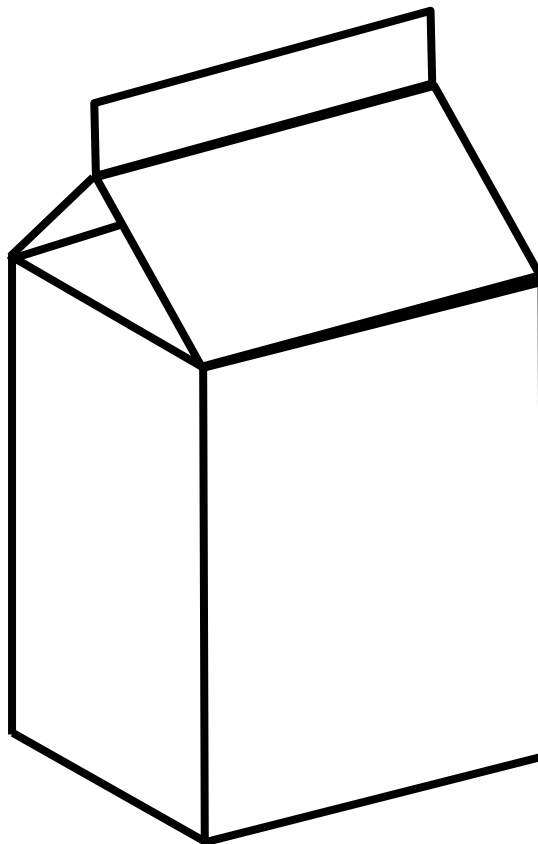


one inch

# Cup

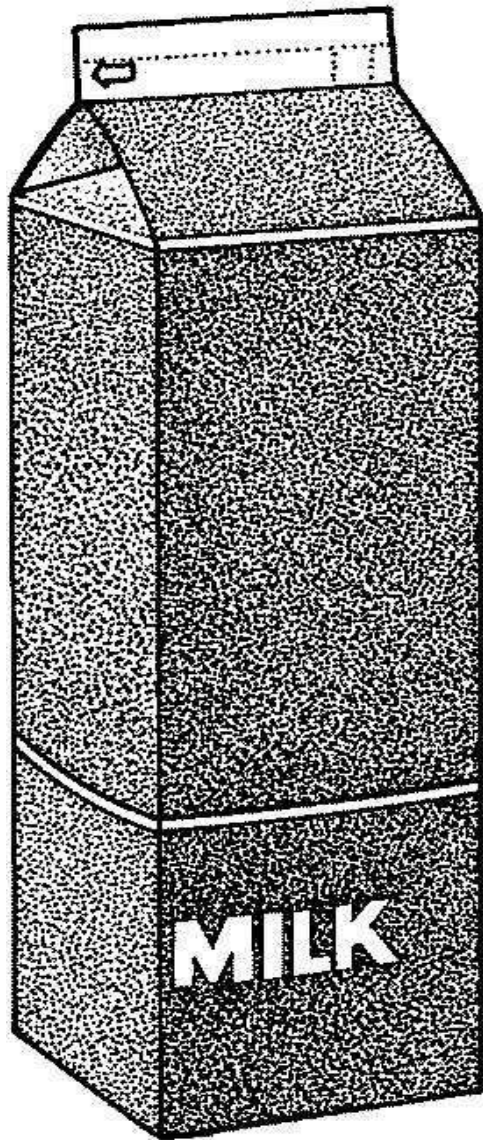


# Pint





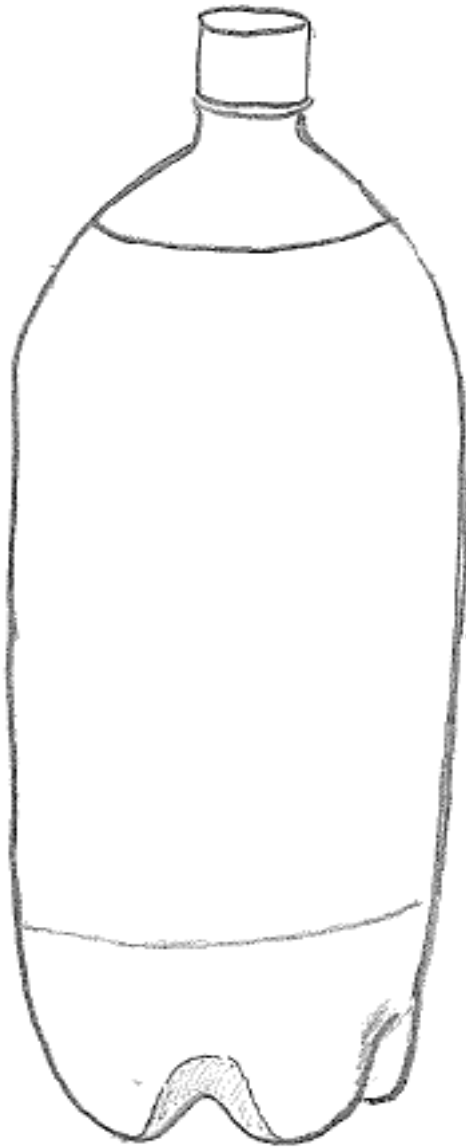
# Quart



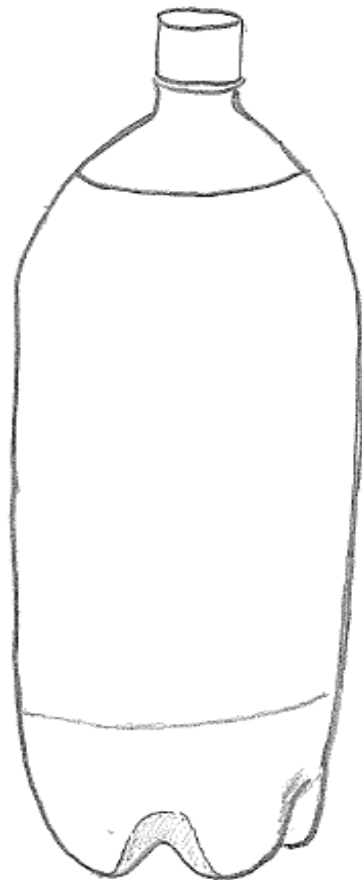
# Gallon



# Liter



2 liters



1 liter

# Area:

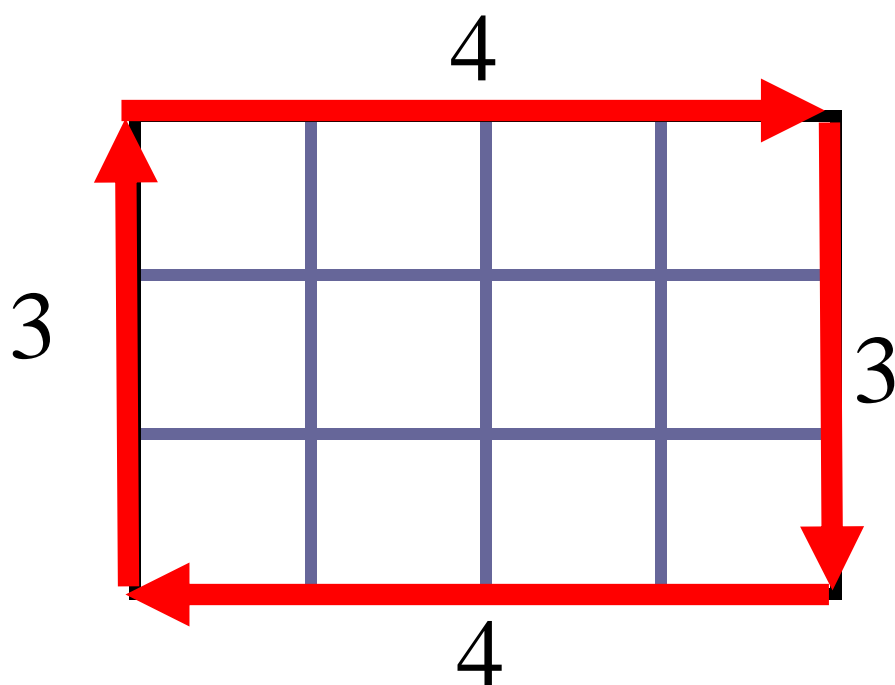
## Square Units

1	2	3	4
5	6	7	8
9	10	11	12

12 square units

# Perimeter:

## Units



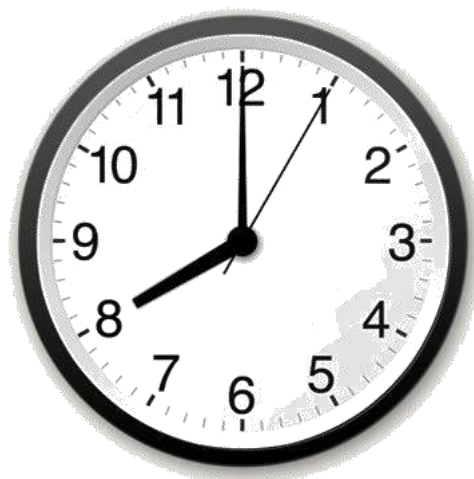
$$3 + 4 + 3 + 4$$
$$14 \text{ units}$$

# Clock:

## Minutes, One-half Hour, One Hour



digital



analog

30 minutes = one-half hour

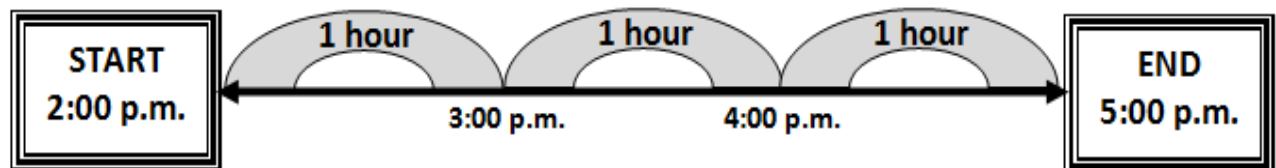
60 minutes = 1 hour

24 hours = 1 day

# Elapsed Time

amount of time that has passed between two given times

The movie starts at 2:00 p.m. and ends at 5:00 p.m.



The movie is three hours long.

# Calendar

NOVEMBER						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

24 hours = 1 day

7 days = 1 week

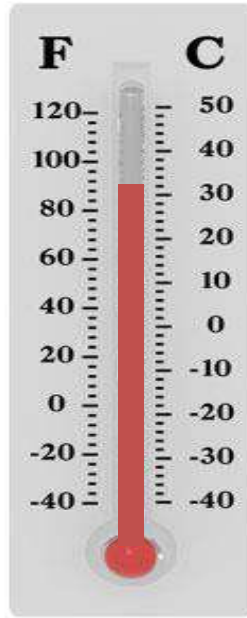
About 30 days = 1 month

$365\frac{1}{4}$  days = 1 year

12 months = 1 year



# Thermometer



temperature

degrees °

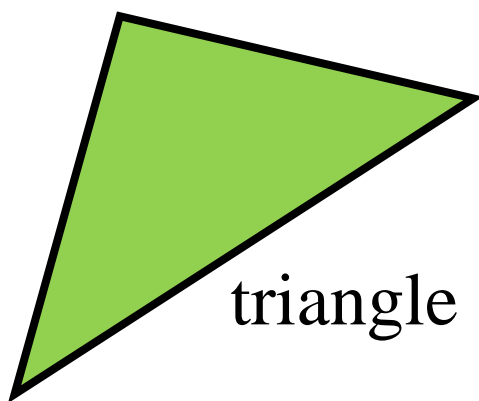
Fahrenheit

Celsius

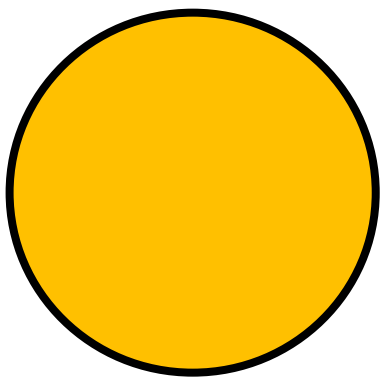
# Plane Figures



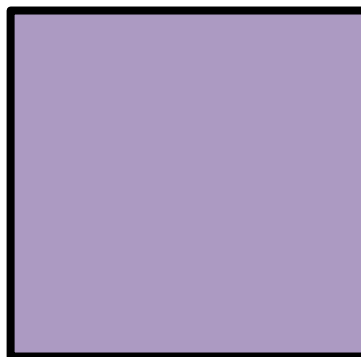
rectangle



triangle



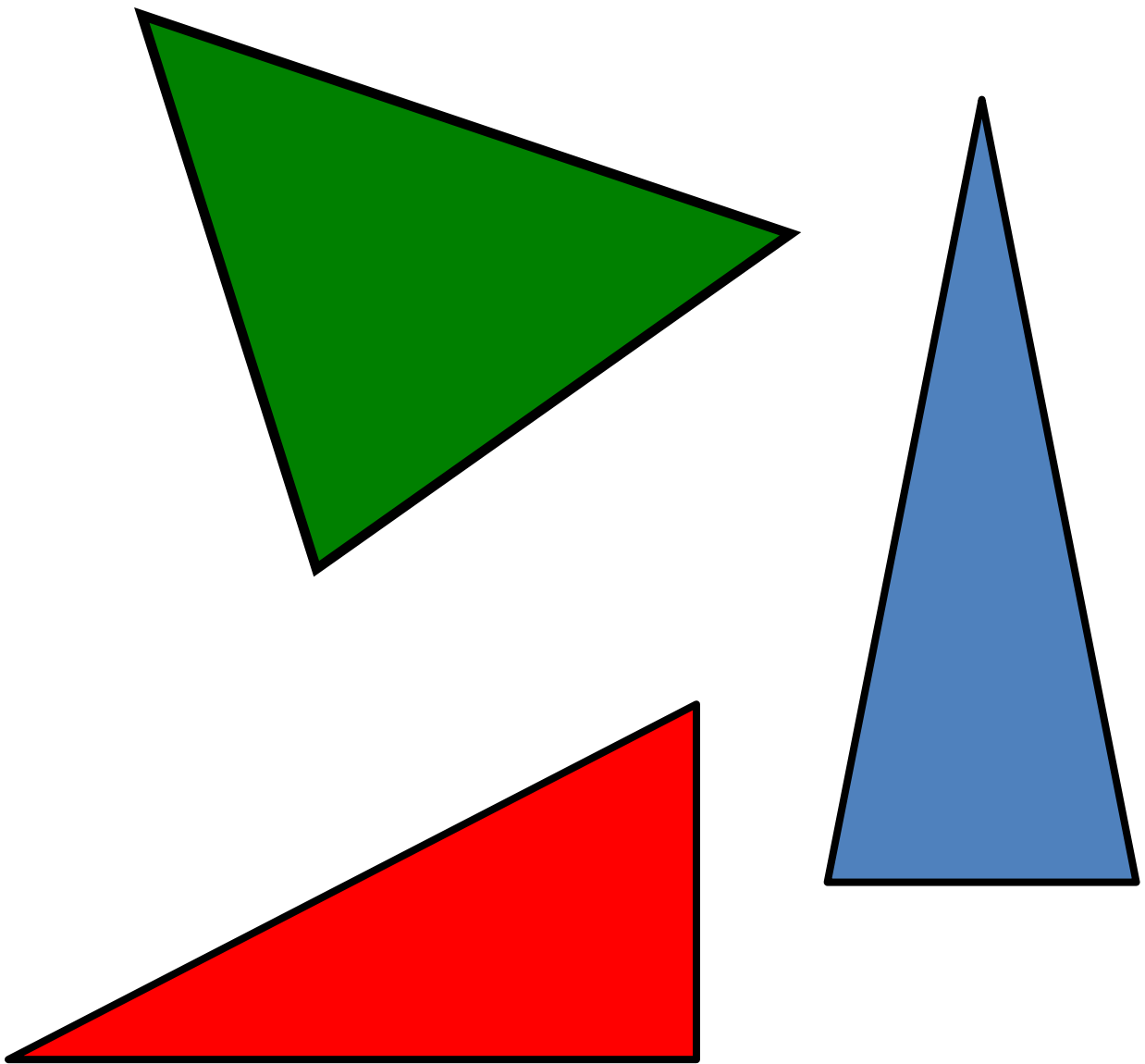
circle



square

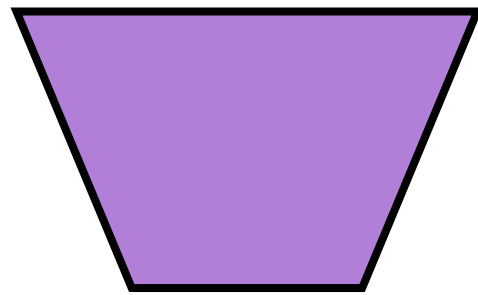
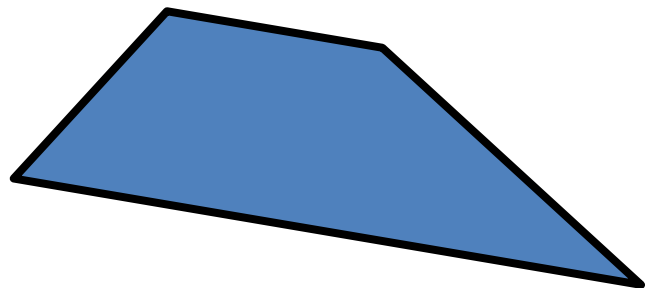
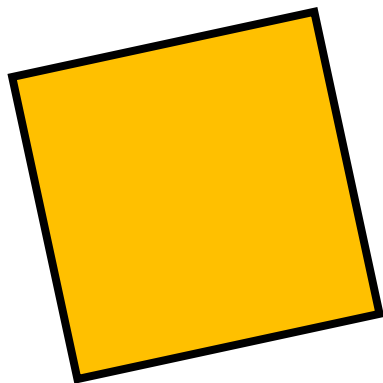
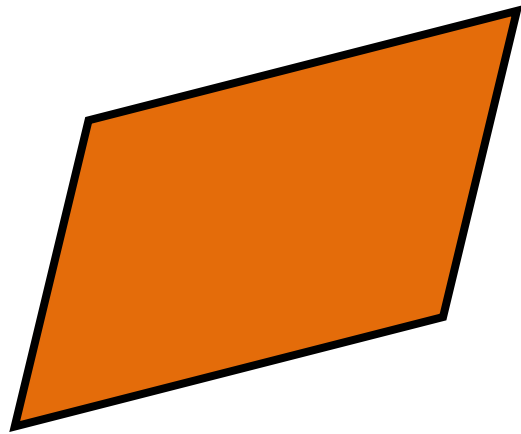
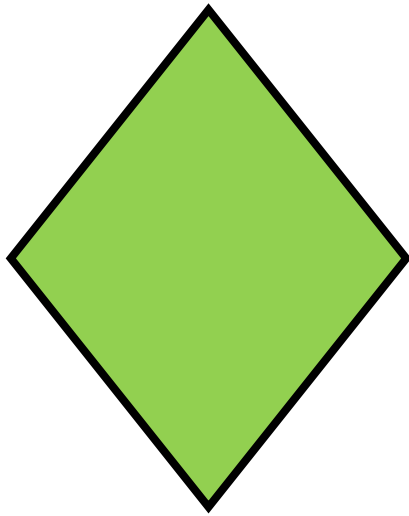
# Polygons:

## Triangles



# Polygons:

## Quadrilaterals



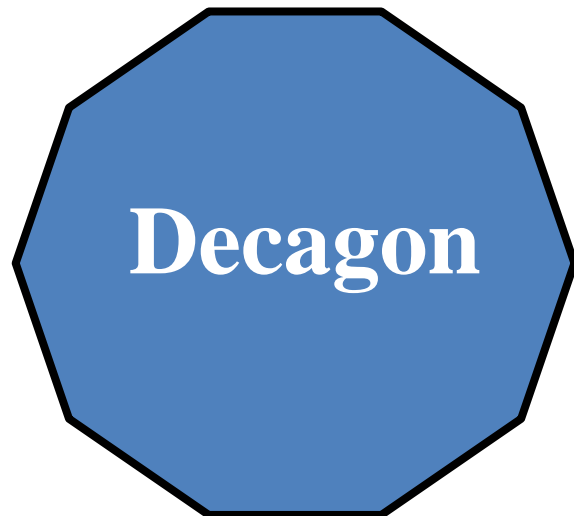
# Polygons:

## Pentagon, Hexagon, Heptagon, and Octagon

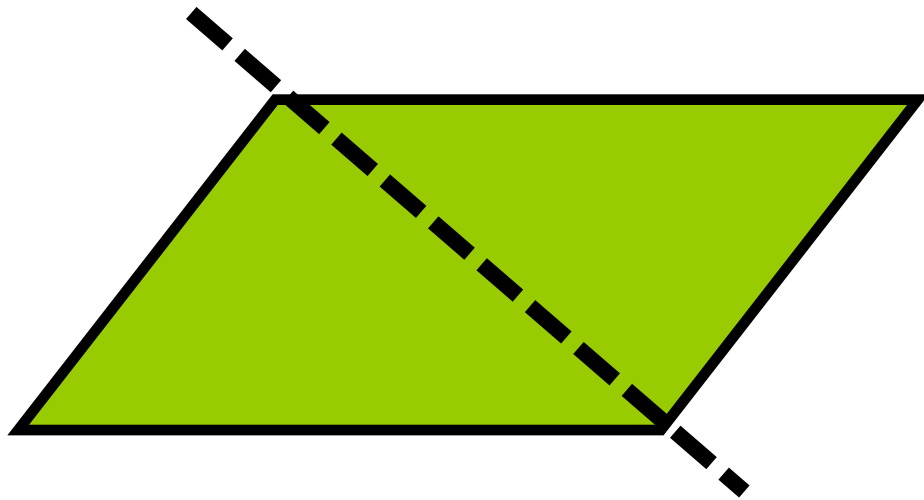


# Polygons:

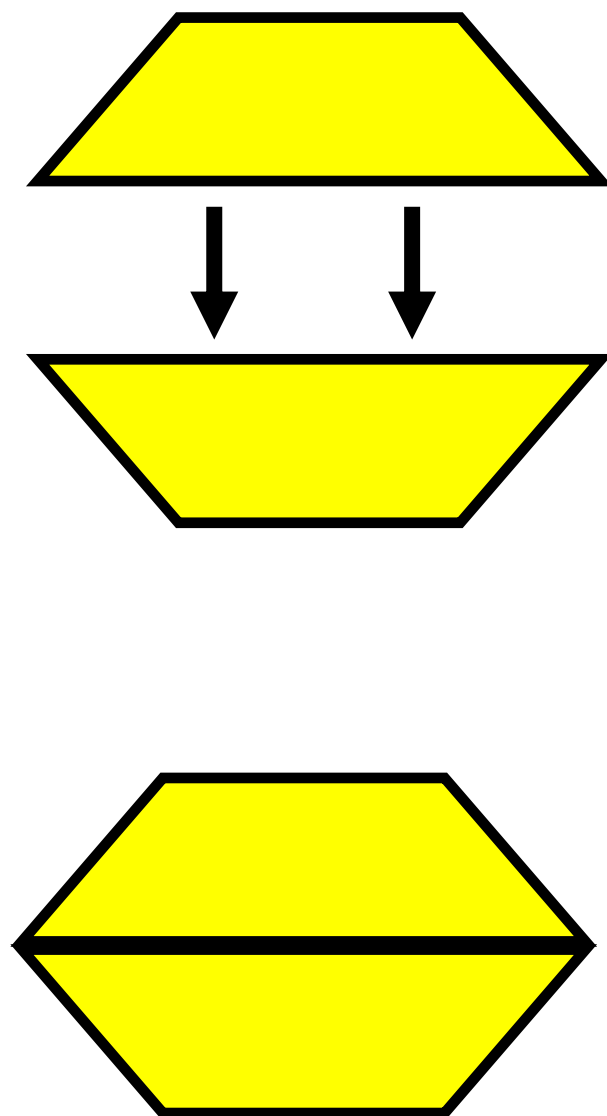
## Nonagon and Decagon



# Subdivide



# Combine





# Rectangle:

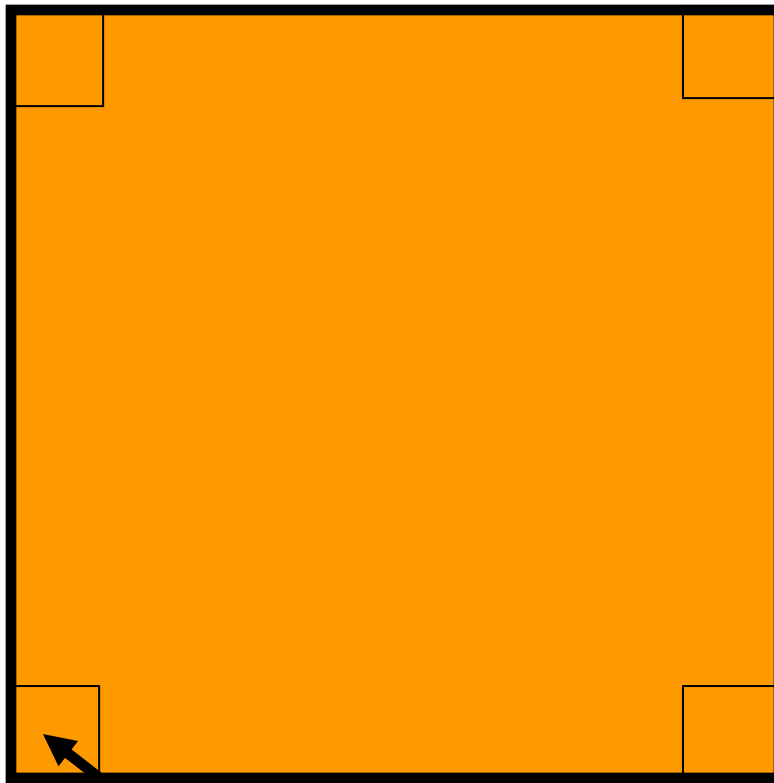
## Right Angle



right angle

# Square:

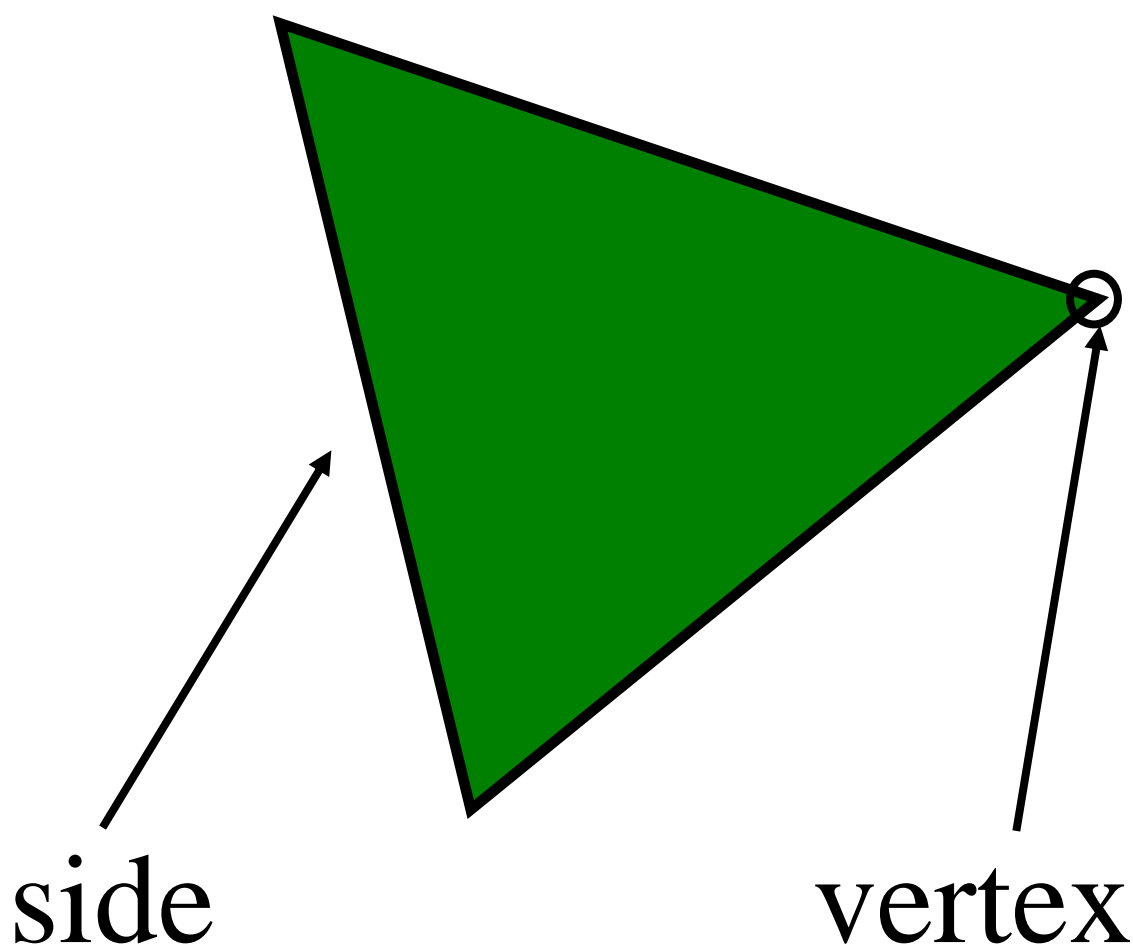
## Right Angle



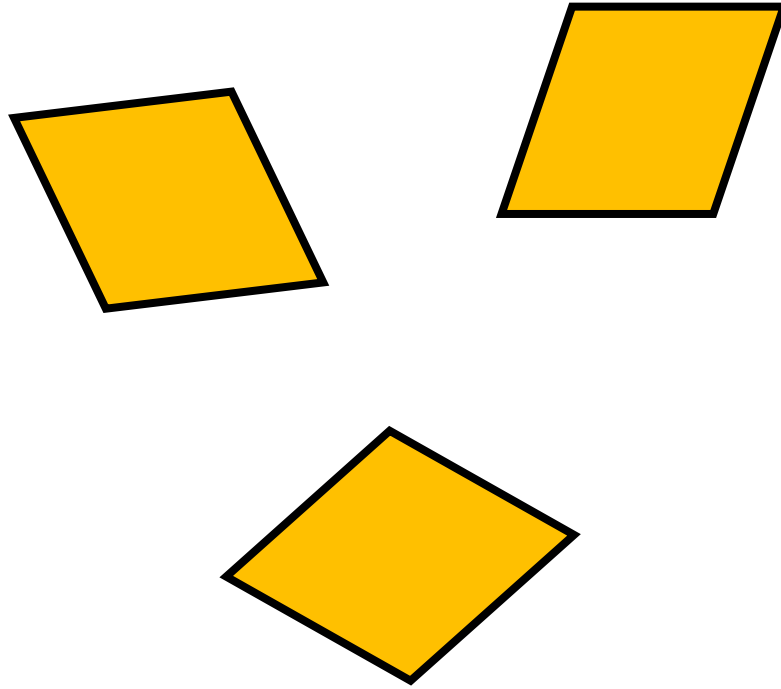
right angle

# Triangle:

## Side and Vertex

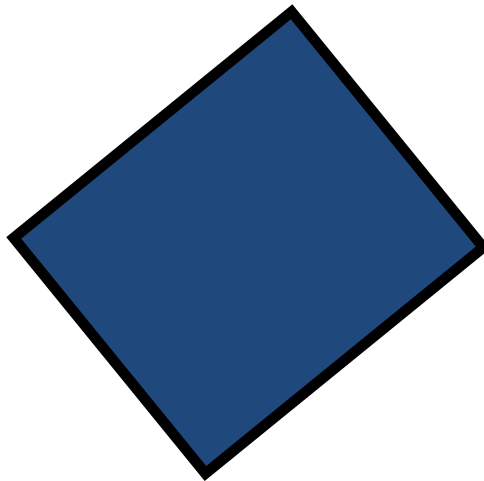
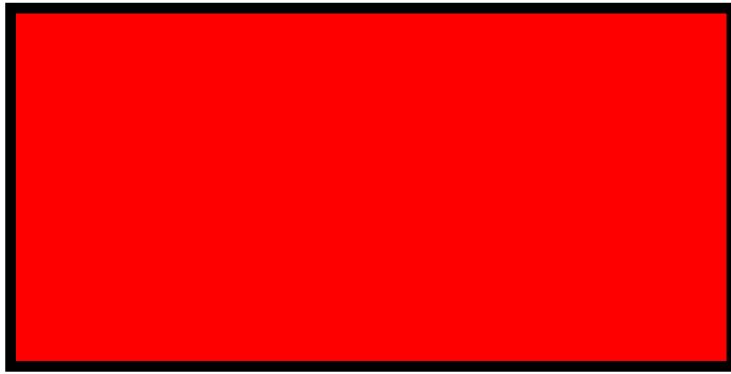


# Congruent

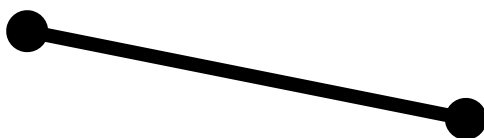


same shape and size

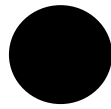
# Noncongruent



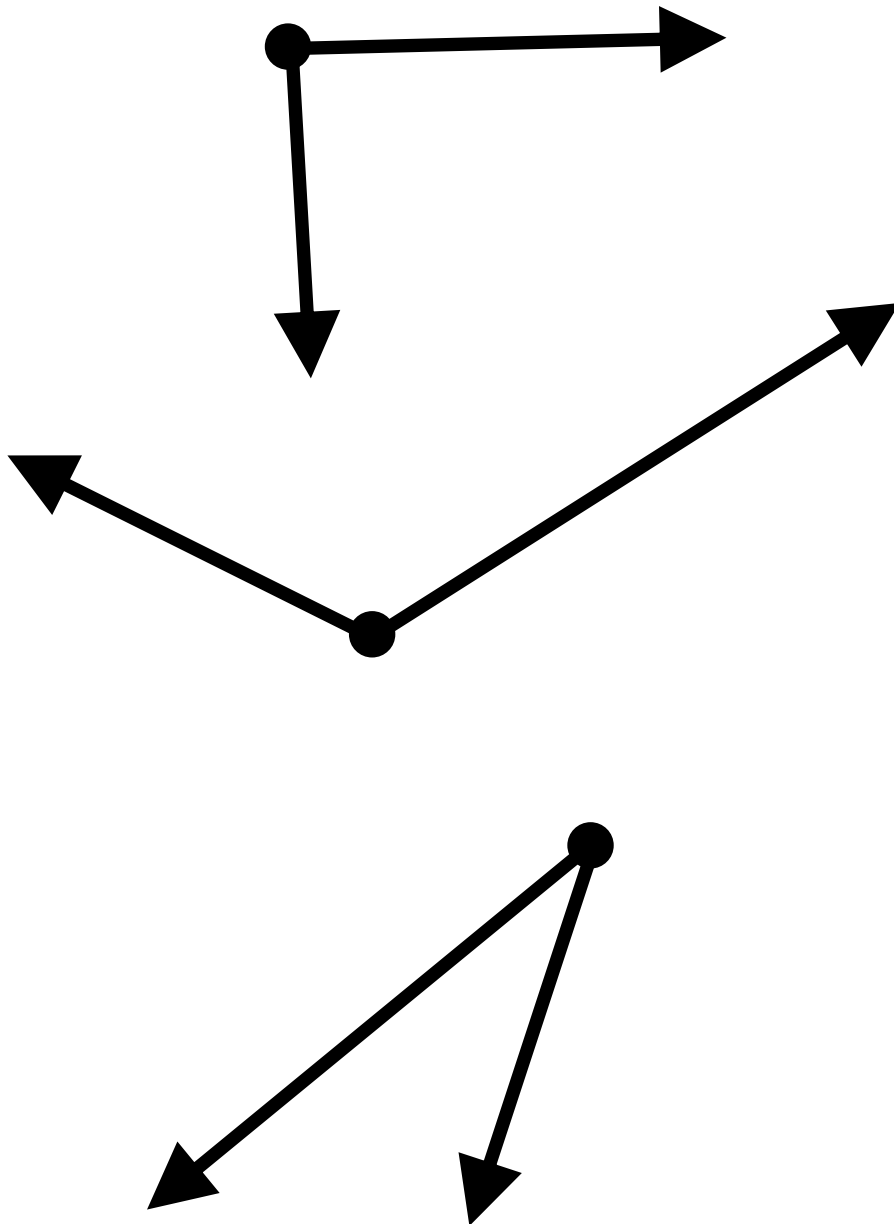
# Line Segment



# Point

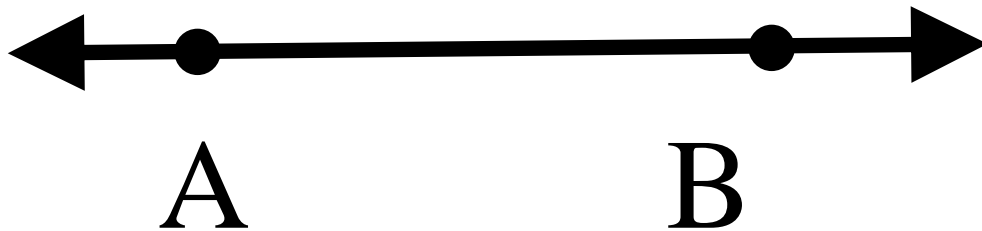


# Angle

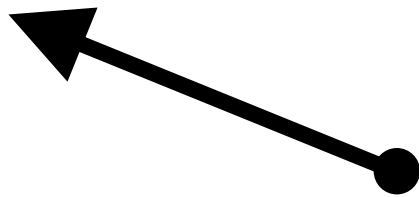




# Line

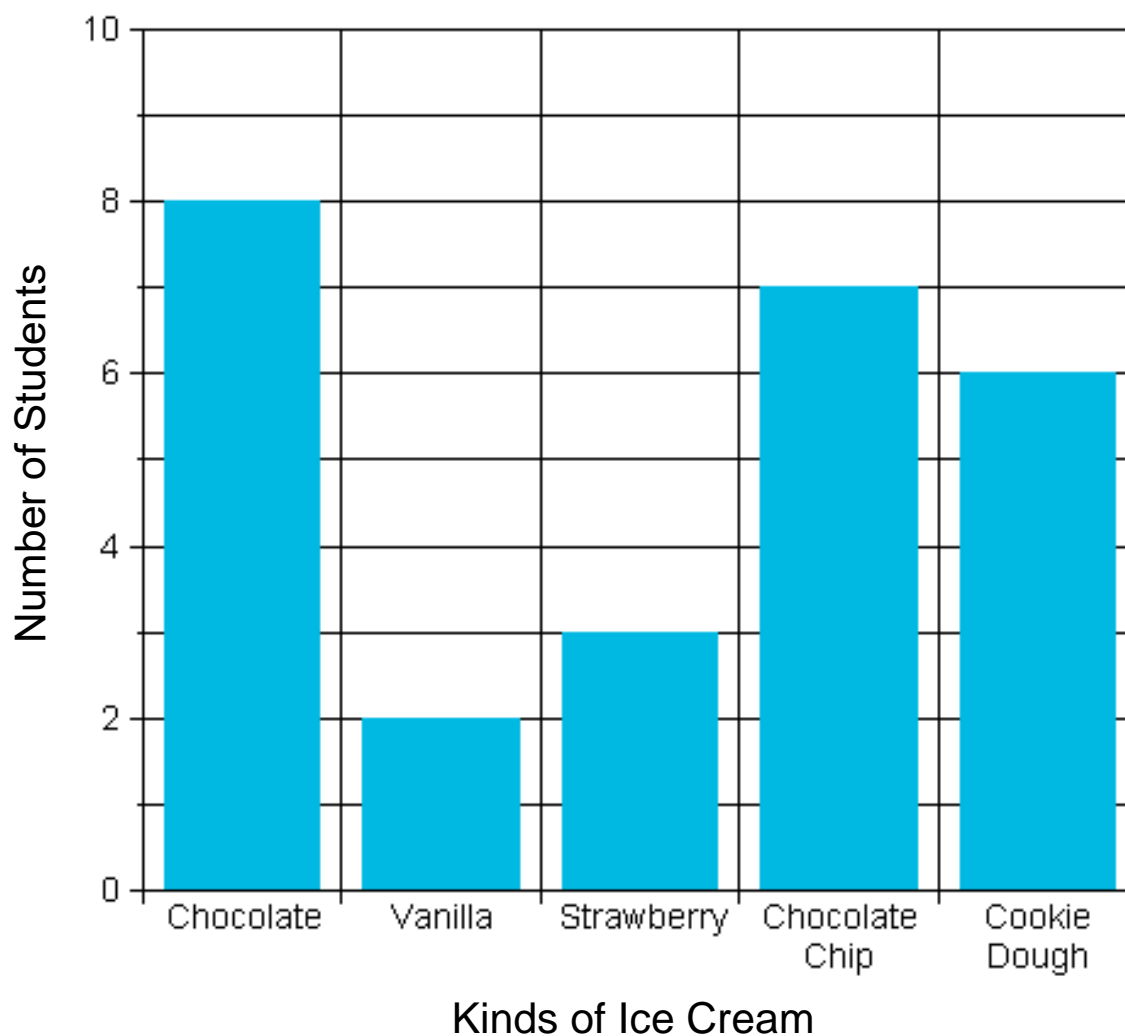


# Ray



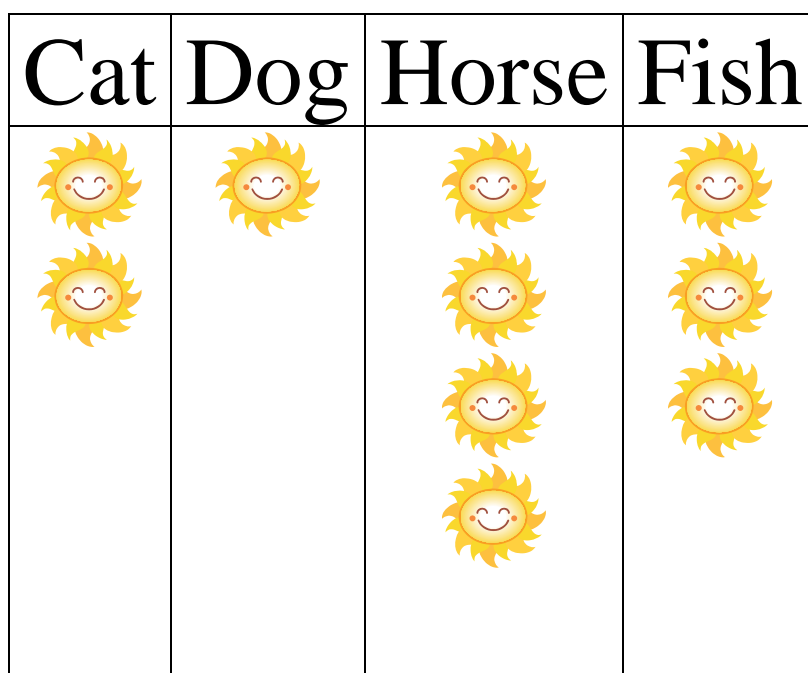
# Bar Graph

Our Favorite Ice Cream



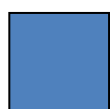
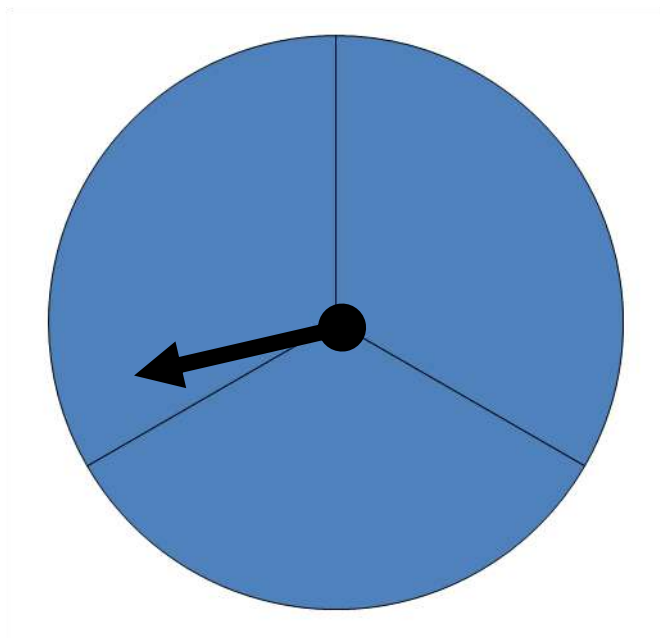
# Pictograph

## Our Favorite Pets



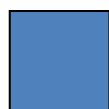
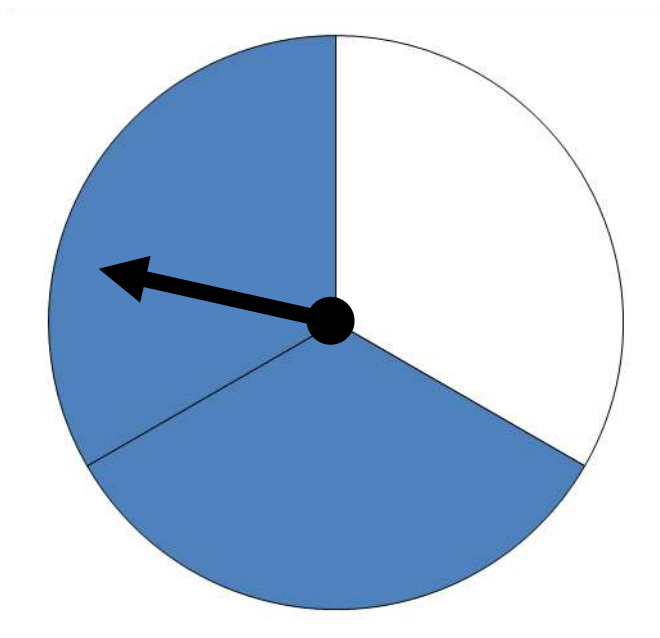
 = 2 students

# Certain



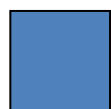
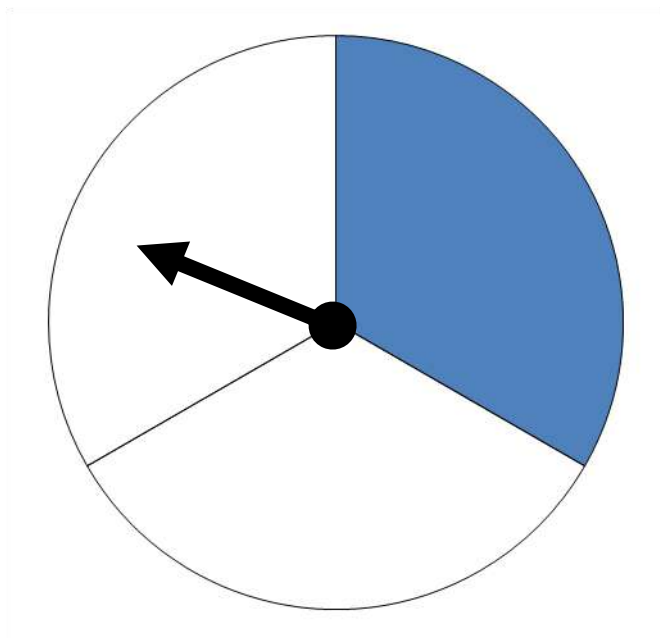
is certain

# Likely



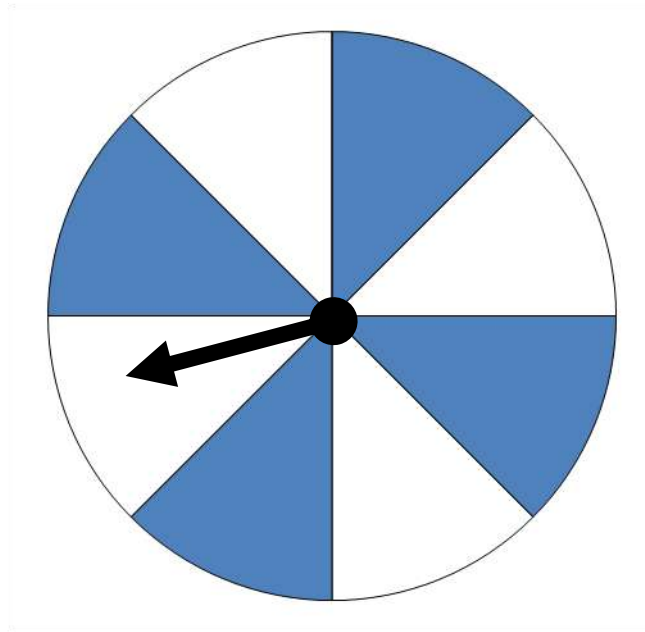
is likely

# Unlikely



is unlikely

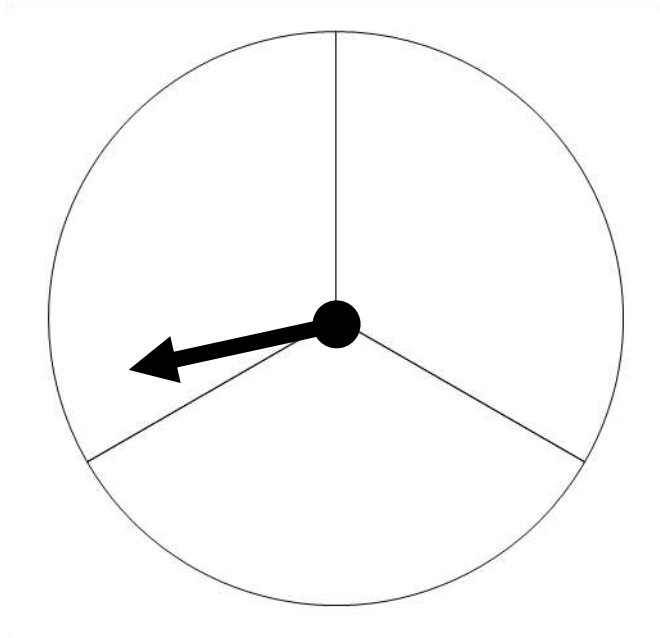
# Equally Likely



 and  are equally likely



# Impossible



 is impossible

# Equal

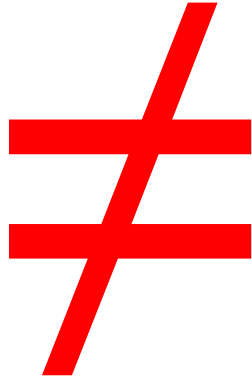


$$2 + 9 = 9 + 2$$

$$13 - 4 = 12 - 3$$

$$3 \times 4 = 1 \times 12$$

# Not Equal



$$5 + 6 \neq 4 + 8$$

$$9 - 4 \neq 3 \times 3$$

$$5 \times 7 \neq 35 + 5$$

# Pattern:

## Growing patterns and Input/Output table



3, 5, 7, 9, \_\_, 13, \_

Rule: Add 4

Input	Output
4	8
5	9
8	—
9	—

# Expression

a representation of a  
quantity

$$5$$

$$4 + 3$$

$$8 - 2$$

$$2 \times 7$$

# Calculator

