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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Probability and Statistics

Bar Graph
Pictograph
Certain
Likely
Unlikely
Equally Likely
Impossible

Patterns, Functions, and Algebra

Equal
Not equal
[Pattern: Growing and Input/output Table](Pattern)
Expression
Calculator

Number Line

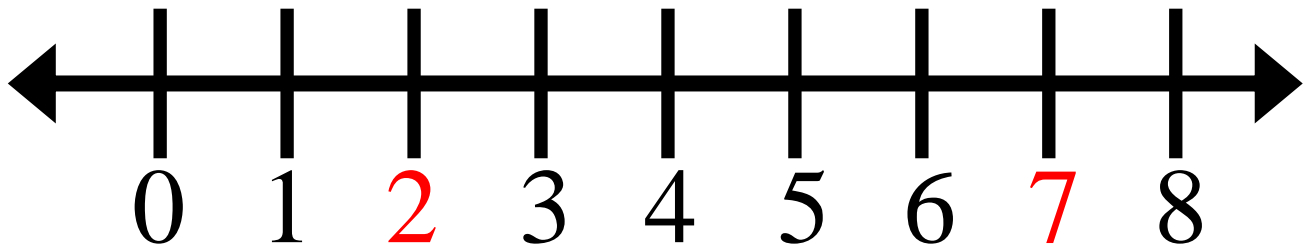$$0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8$$

Round

1,230 ——————————— 1,240
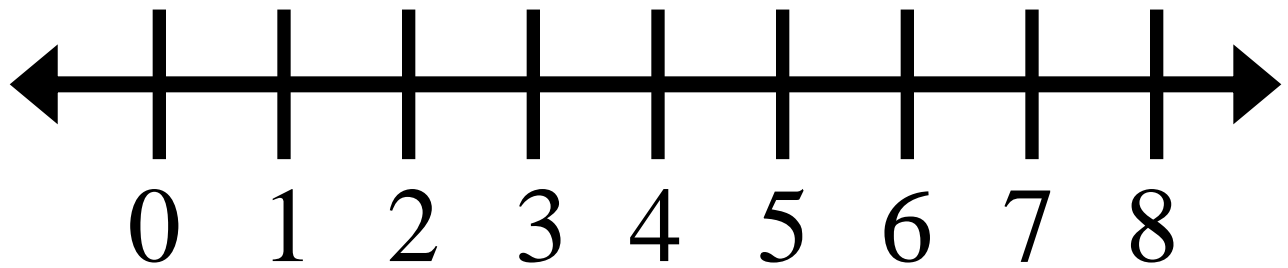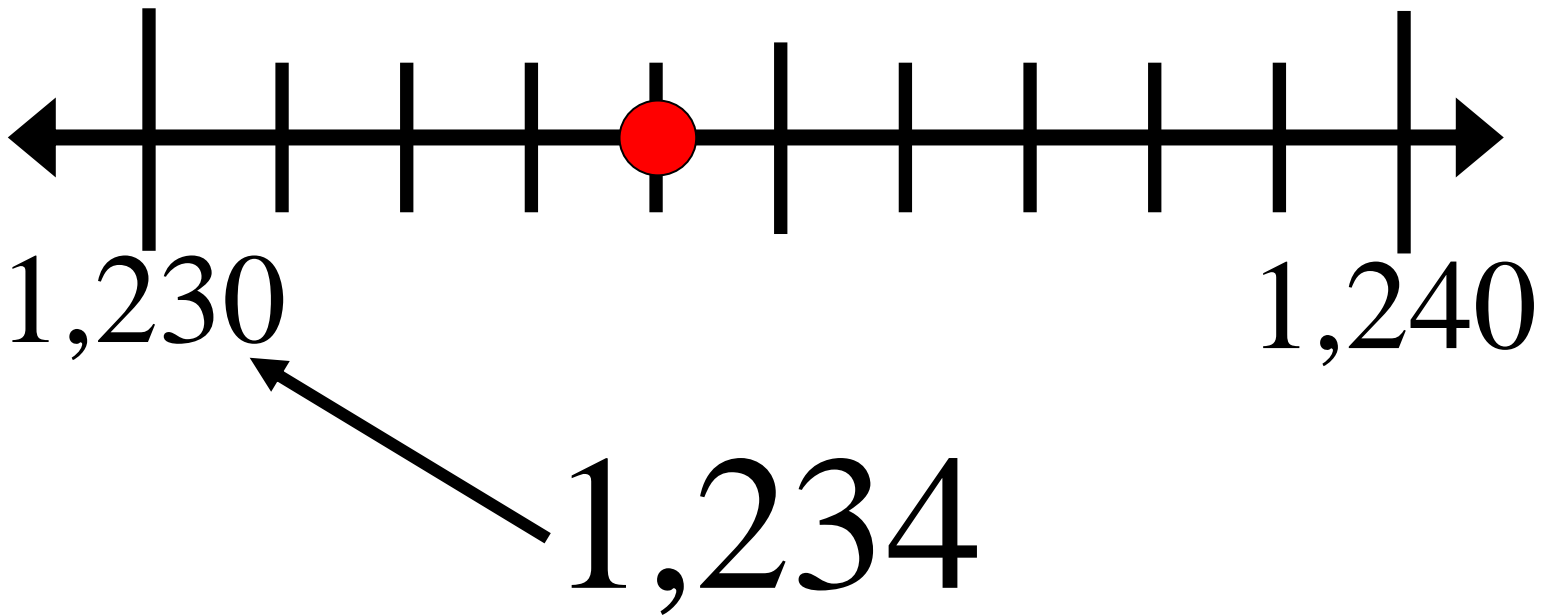
1,234
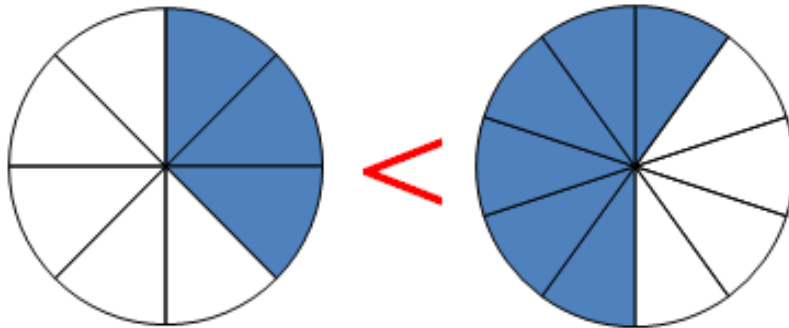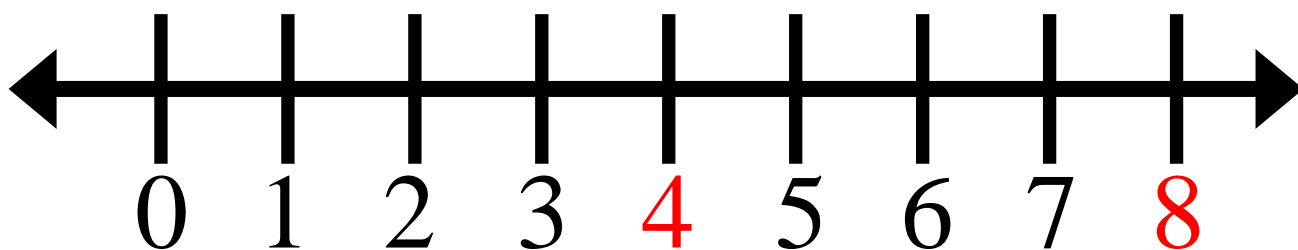
Round 1,234 to the nearest ten.

Less Than

$<$

0 1 2 3 4 5 6 7 8
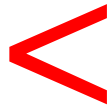
2 < 7
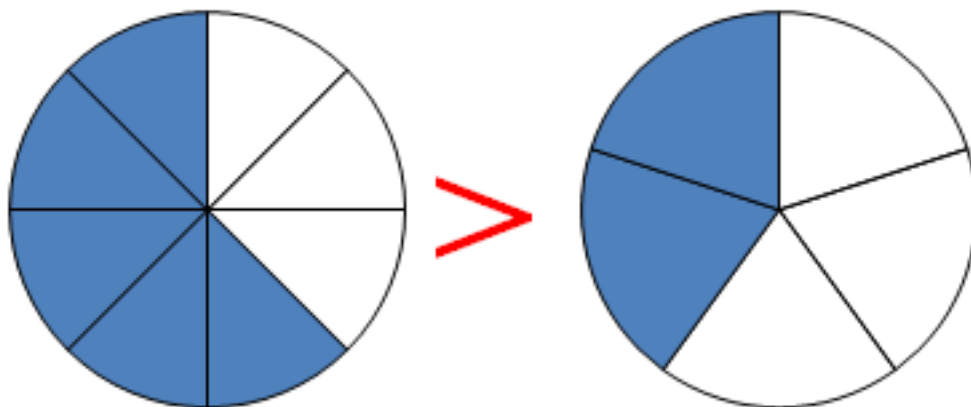

$$\frac{3}{8} < \frac{6}{10}$$

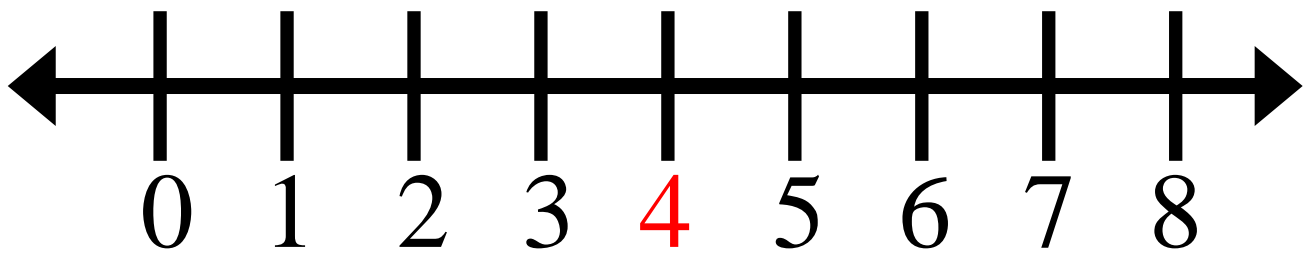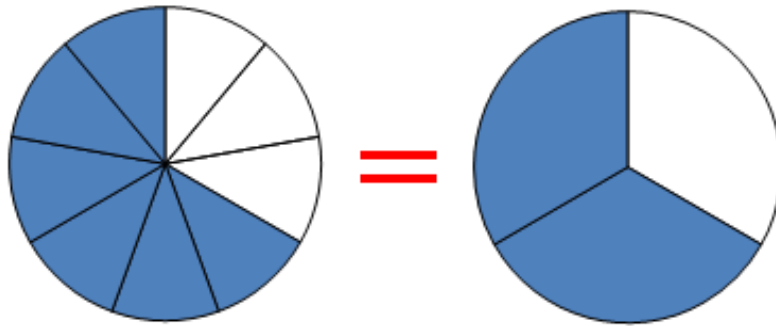# Greater Than

$$>$$

$$8 > 4$$

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

Equal To

$$=$$

$$4 = 4$$
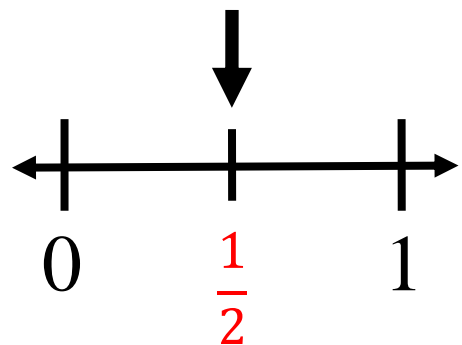

$$\frac{6}{9} = \frac{2}{3}$$

Place Value Position

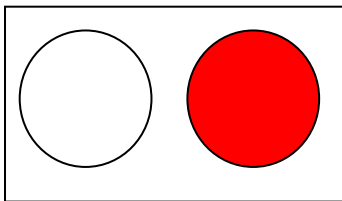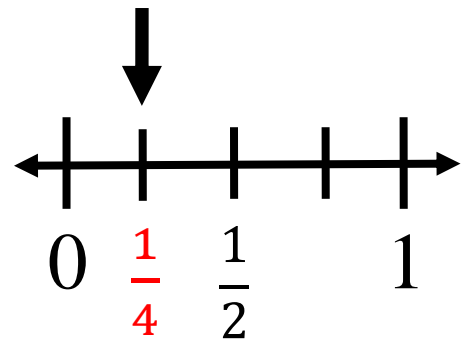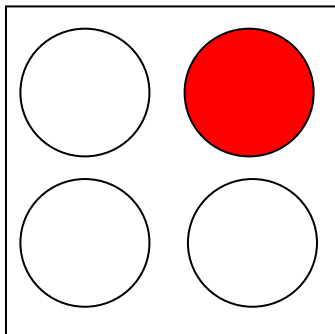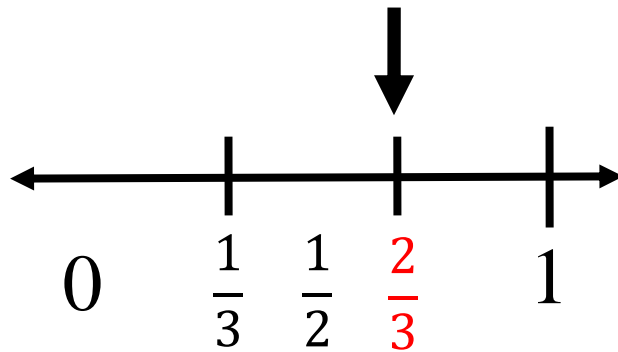| Hundred Thousands	Ten Thousands	One Thousands		Hundreds	Tens	Ones
2	3	5	,	4	8	6

Fraction:
Models for one-half and one-fourth
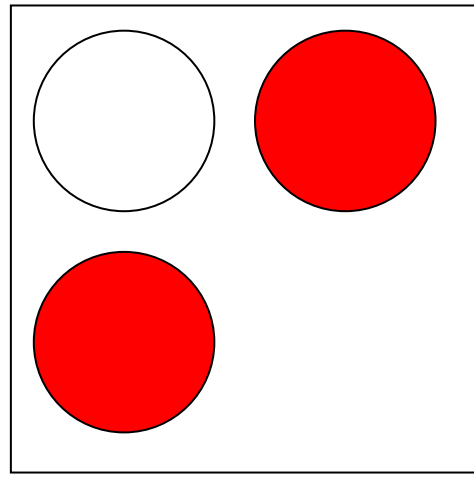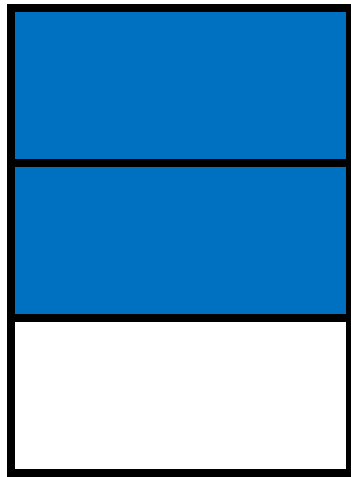
$\dfrac{1}{2}$
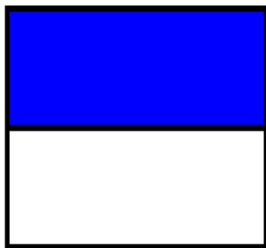
$\dfrac{1}{4}$

Fraction:
Models for two-thirds

$$\frac{2}{3}$$

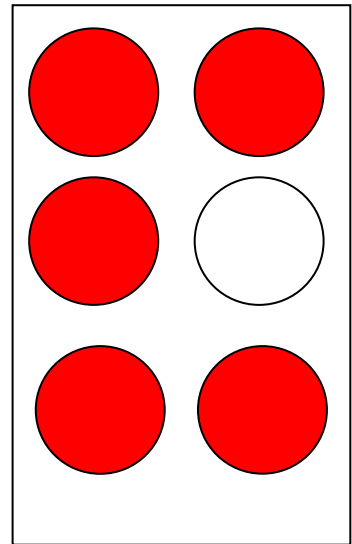
$$0 \quad \frac{1}{3} \quad \frac{1}{2} \quad \frac{2}{3} \quad 1$$

Fraction:
Models for five-sixths

$\dfrac{5}{6}$

$0 \quad \dfrac{1}{6} \quad \dfrac{2}{6} \quad \dfrac{1}{2} \quad \dfrac{4}{6} \quad \dfrac{5}{6} \quad 1$
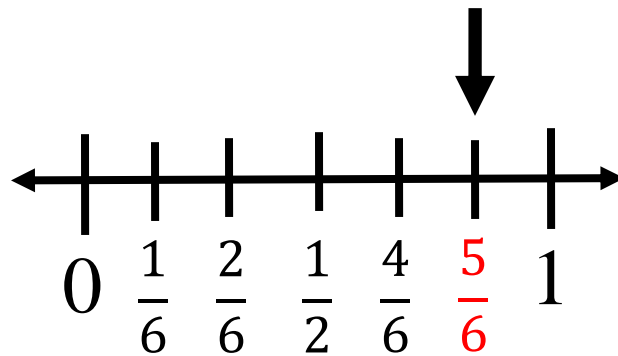
Fraction:
Models for three-eighths

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

0   $\frac{3}{8}$ $\frac{1}{2}$ 1
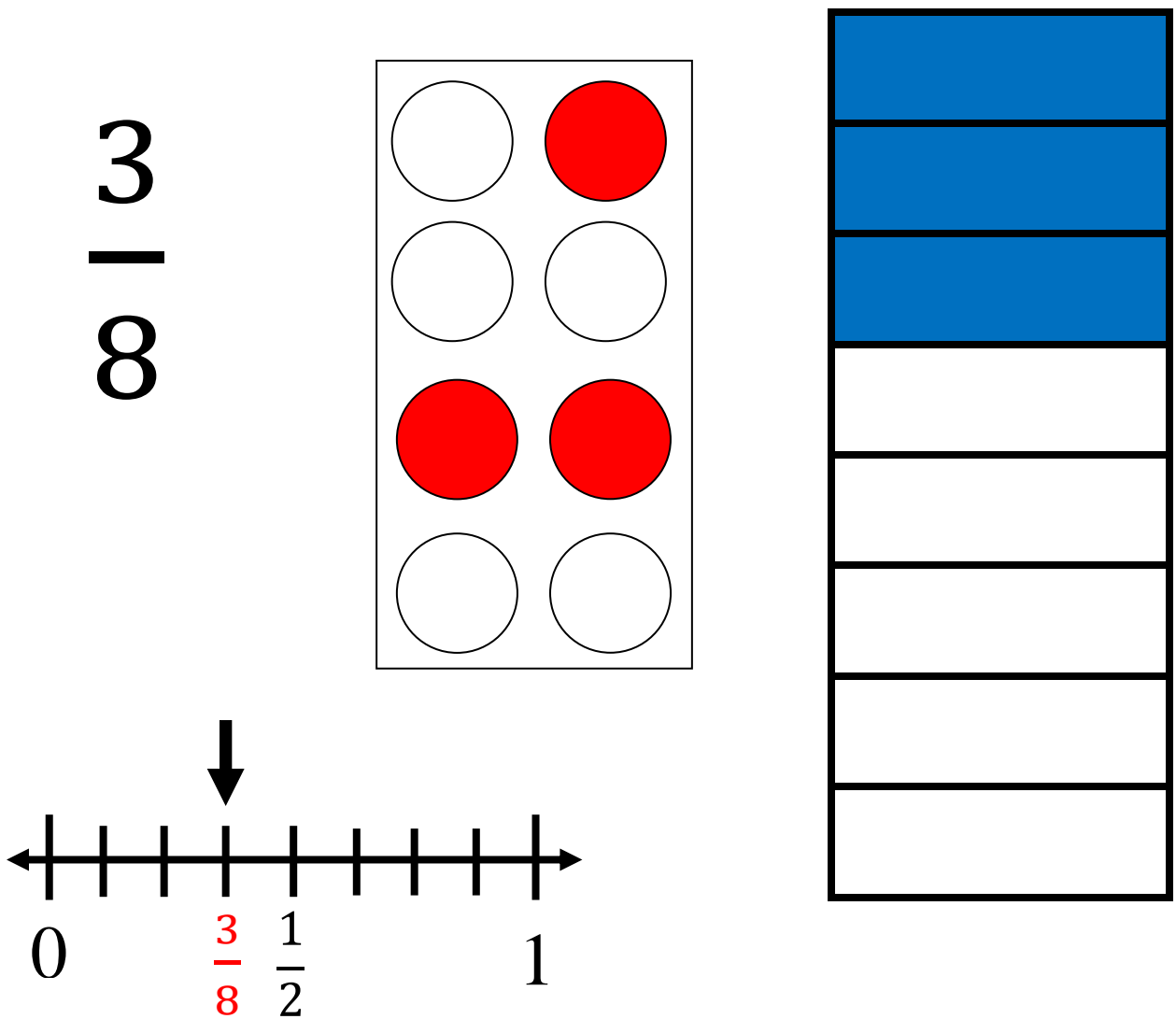
Numerator/ Denominator

numerator 2

(number of equal parts being considered)

$\rule{2cm}{1pt}$

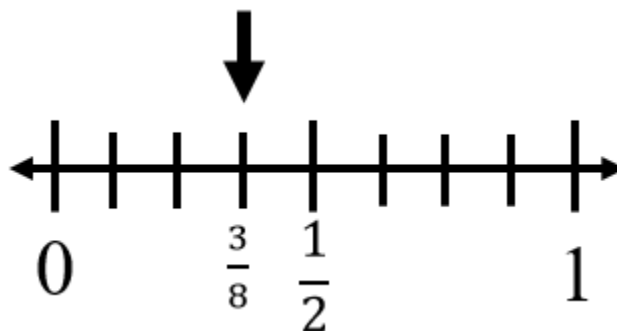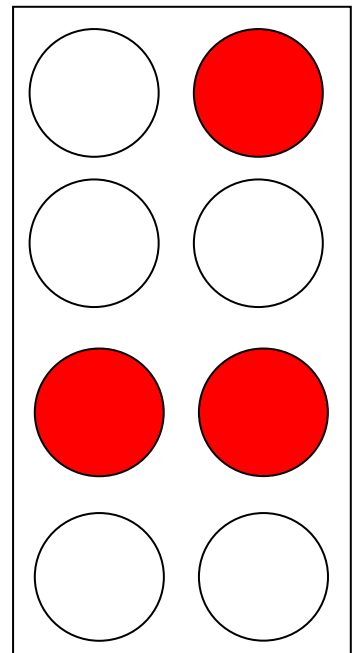3 denominator

(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
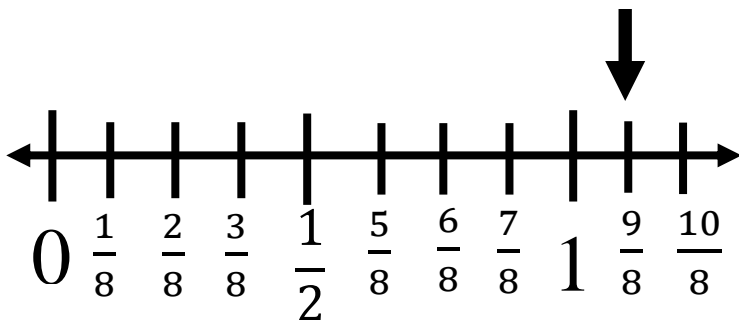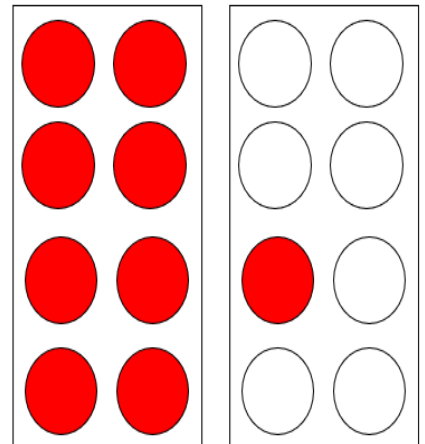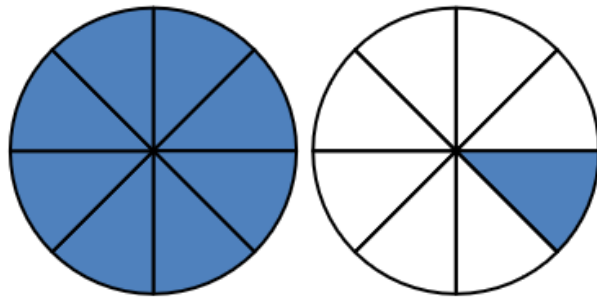### (numerator is less than the denominator)
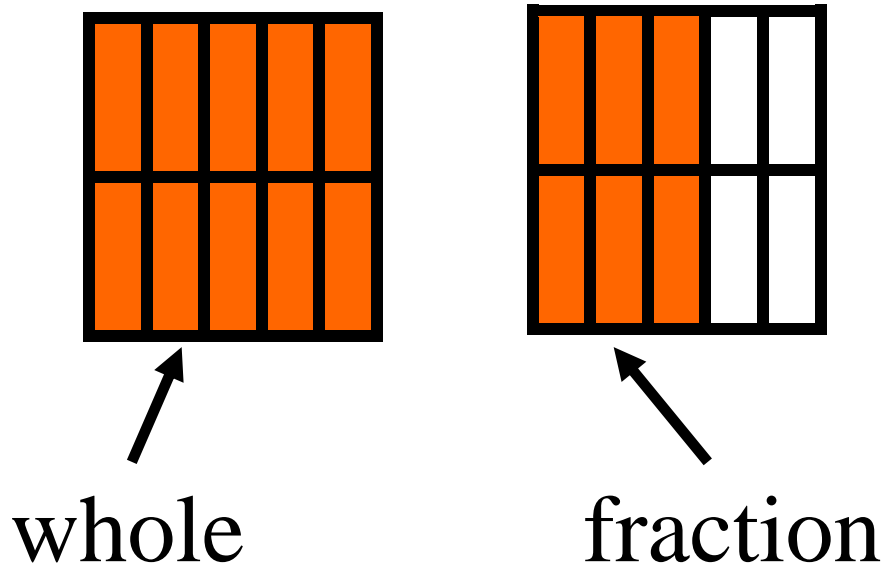
$$\frac{3}{8}$$

Improper Fraction:

Fraction greater than or equal to one

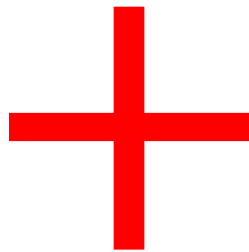(numerator is equal to or greater than the denominator)

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

Number line:

$0 \quad \frac{1}{8} \quad \frac{2}{8} \quad \frac{3}{8} \quad \frac{1}{2} \quad \frac{5}{8} \quad \frac{6}{8} \quad \frac{7}{8} \quad 1 \quad \frac{9}{8} \quad \frac{10}{8}$

Mixed Number

whole   fraction

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

Addition

$$465 + 124 = 589$$

sum

+

plus

Subtraction

$$465 - 124 = 341$$

difference

─────
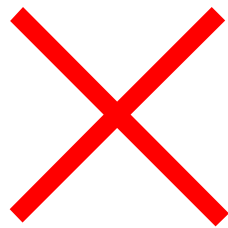
minus

Regroup/ Rename

26 is 1 ten and 16 ones

1 ten 16 ones

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

Multiply
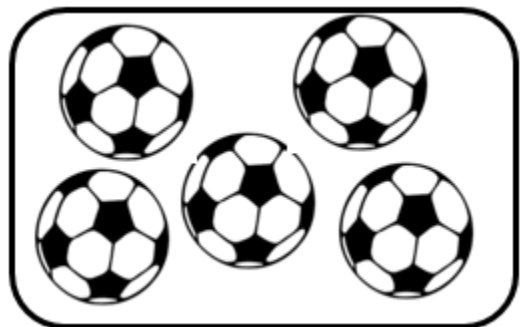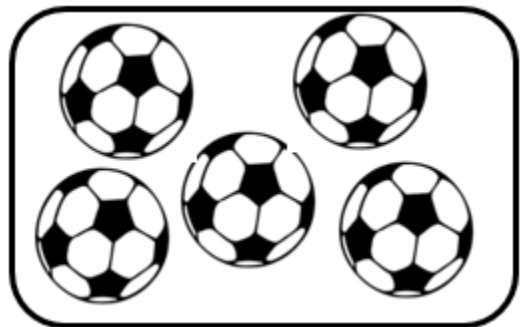
3 x 4 = 12

↗

product

✕

times
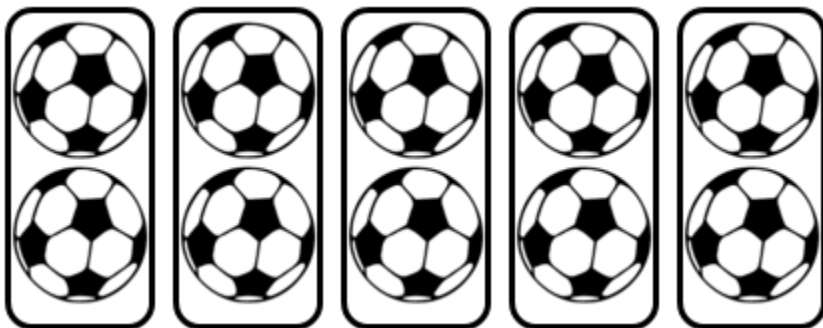
Multiplication:
Set Model

2 x 5

2 groups of 5
soccer balls
in each group

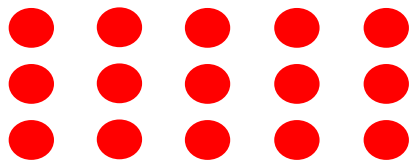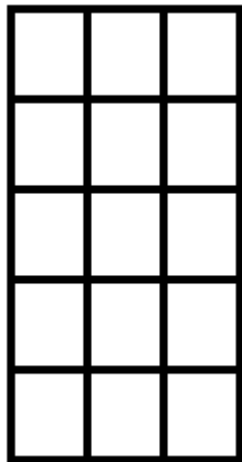5 x 2

5 groups of 2
soccer balls
in each group

Multiplication:
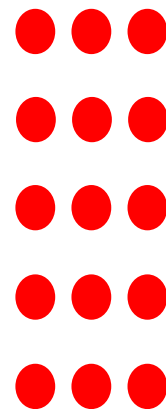## Array Model
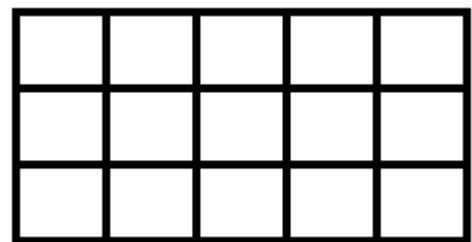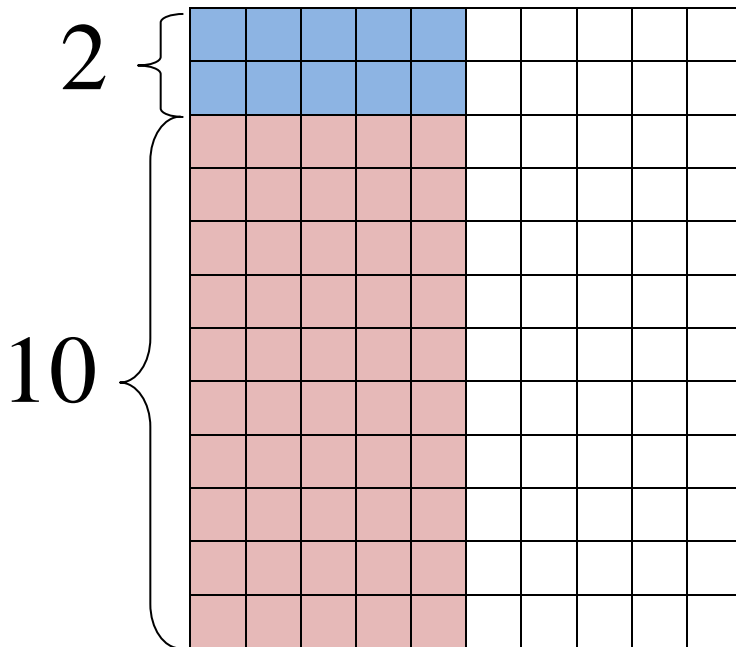**(an arrangement of objects in rows and columns)**

5 x 3

3 x 5

3 rows of 5

5 rows of 3

Multiplication:
Area (array) Model

$$12 \times 5$$

5

2 {

10 {

$$10 \times 5 = 50$$
$$+ \ 2 \times 5 = 10$$
$$60$$

$$12 \times 5 = 60$$

Multiplication:
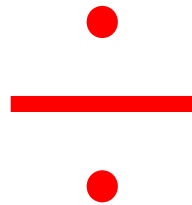## Number Line Model

4 x 3

4 x 3 = 12
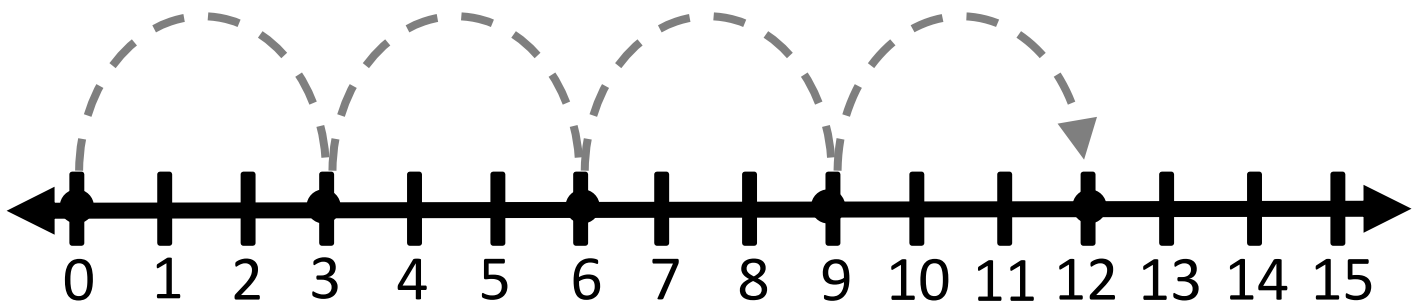
Divide

$$4\overline{)12}^{\,3}$$

$$12 \div 4 = 3$$
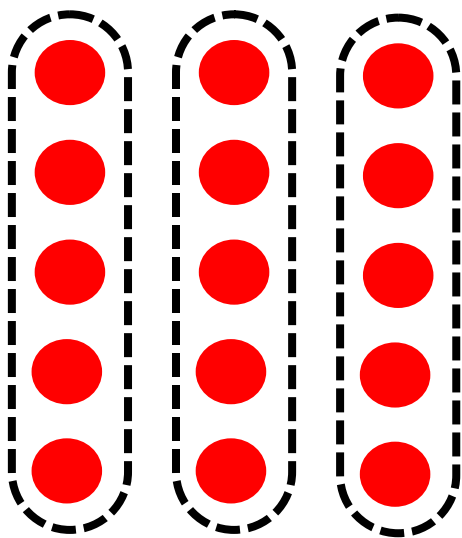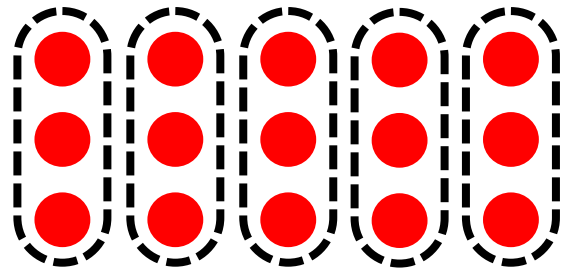
quotient

$$\div$$

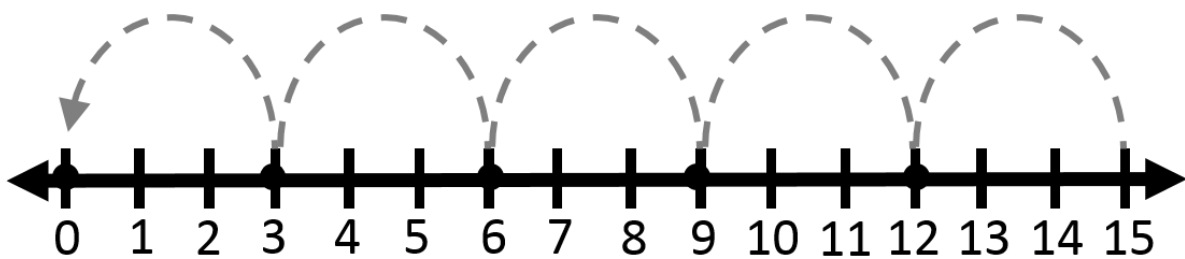divided by

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

$$2 \times 3 = 6$$

$$3 \times 2 = 6$$

$$6 \div 3 = 2$$
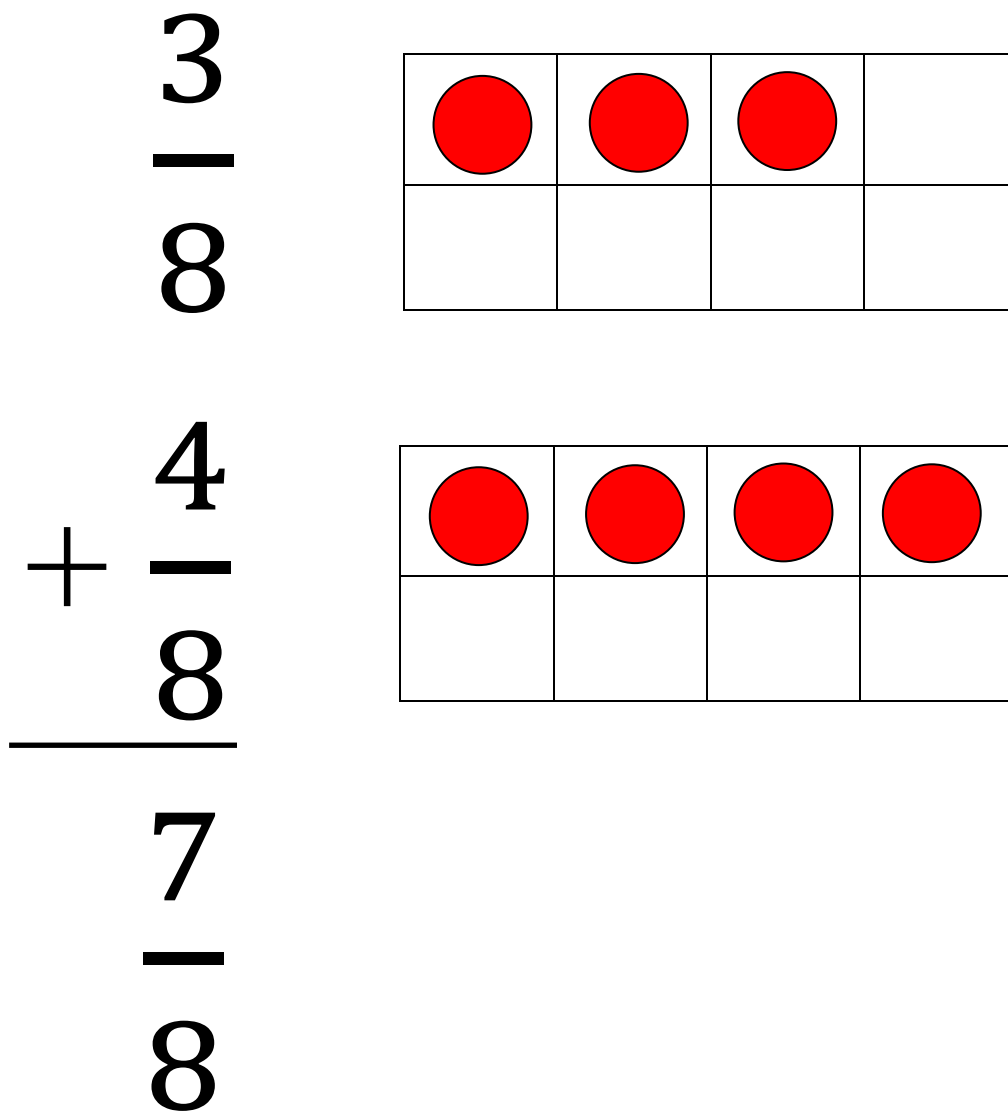
$$6 \div 2 = 3$$

Equation:
Number Sentence
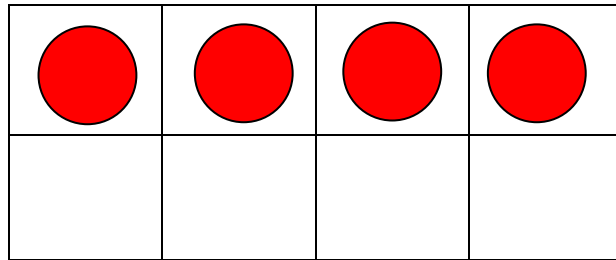
$$8 = 3 + 5$$

$$6 - 2 = 4$$

$$17 + 13 + 9 = 39$$
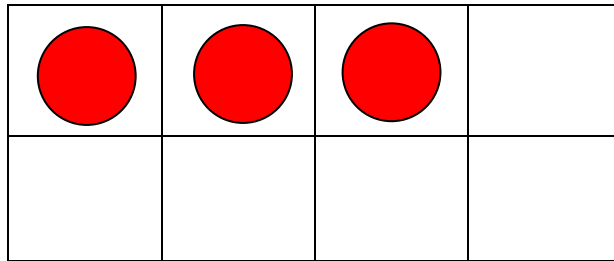
$$4 \times 3 = 14 - 2$$

Fraction:
Addition

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

$$+\frac{4}{8}$$

$$\frac{7}{8}$$

Fraction:
Subtraction

$$\frac{4}{8}$$

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

$$\frac{1}{8}$$

Penny

1¢

one cent

$0.01

Nickel

5¢

five cents

$0.05

Dime

10¢
ten cents
$0.10
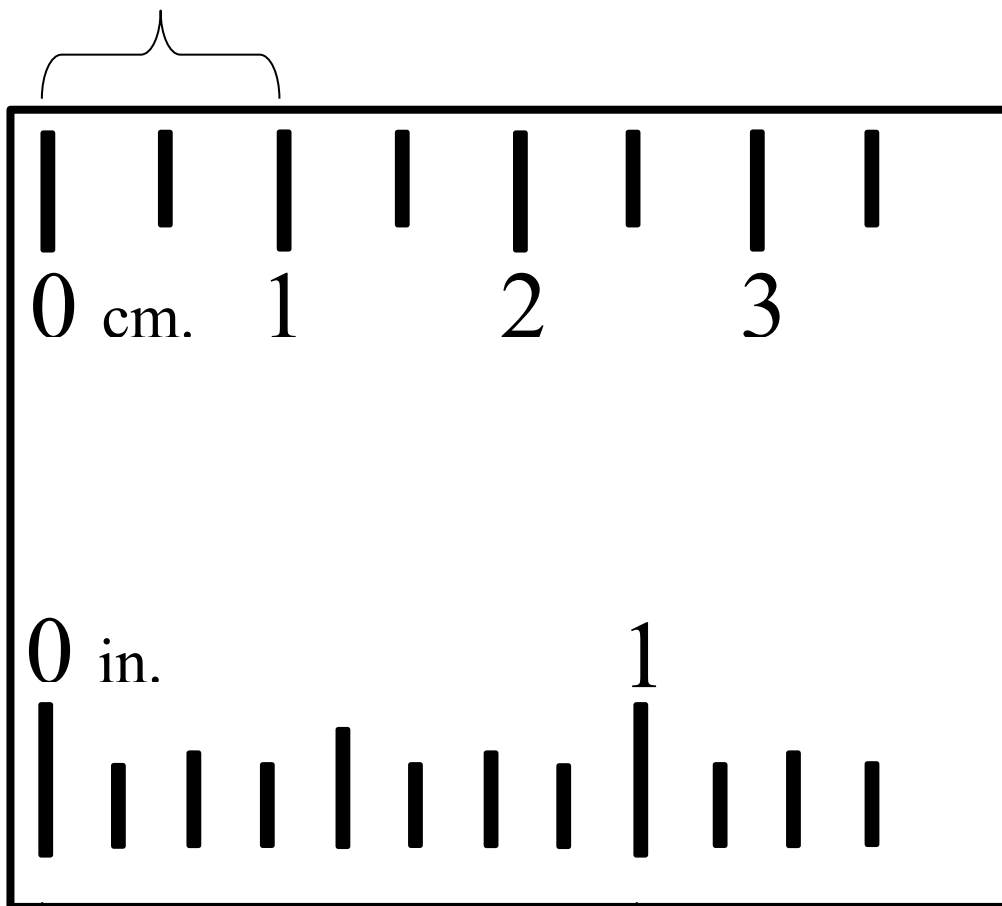
Quarter

25¢
twenty-five cents
$0.25

Dollar

$1.00
One hundred cents

Ruler:
Centimeter and Inch

one centimeter
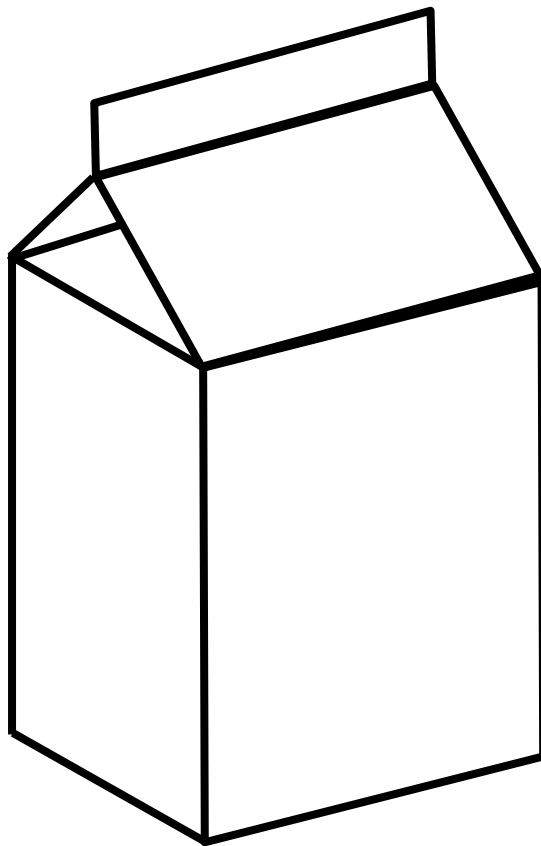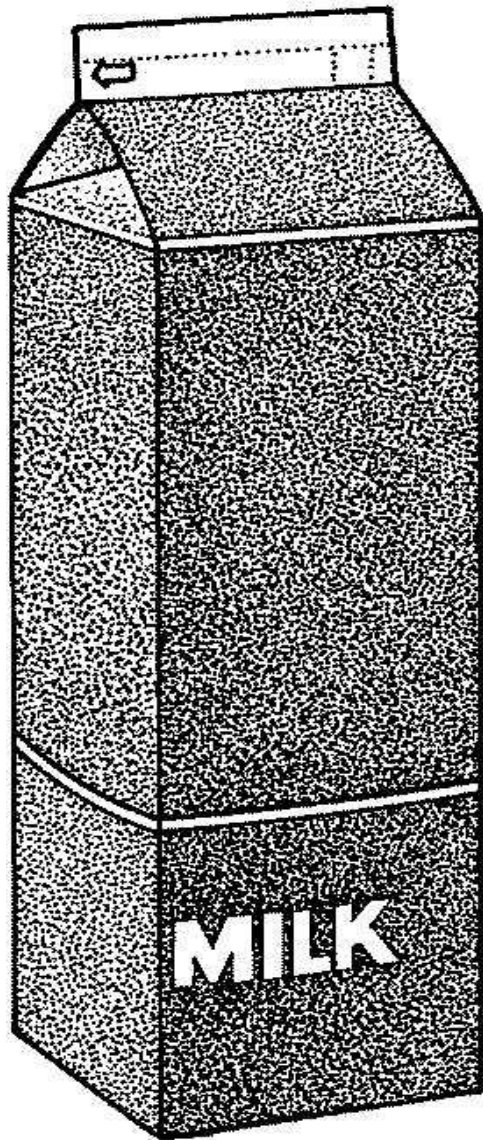
0 cm.   1   2   3

0 in.   1

one inch

Cup

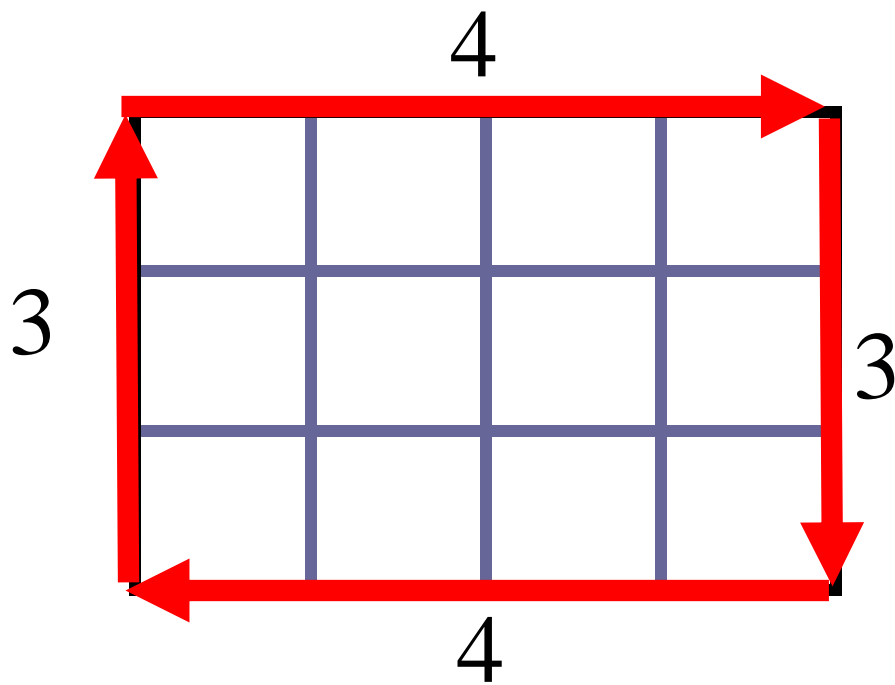# Pint

Quart

Gallon

Liter
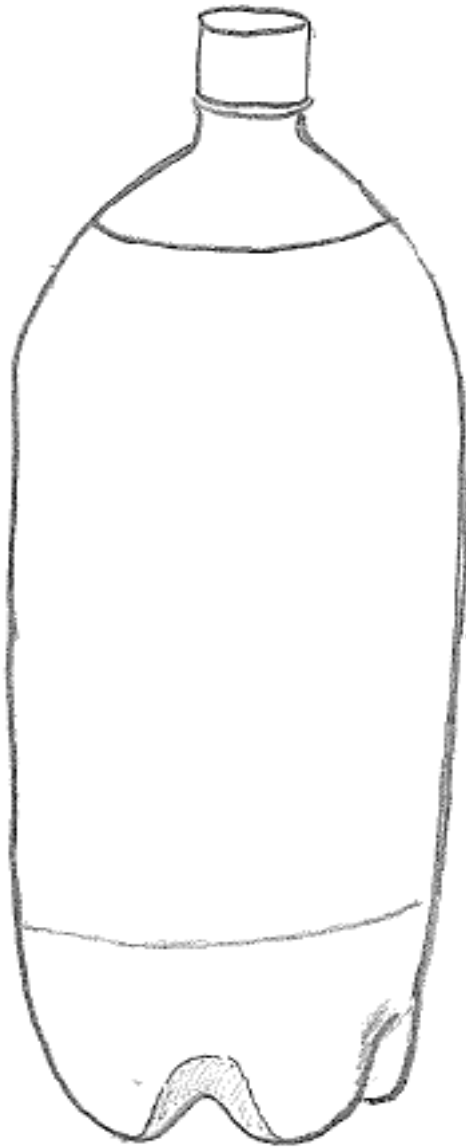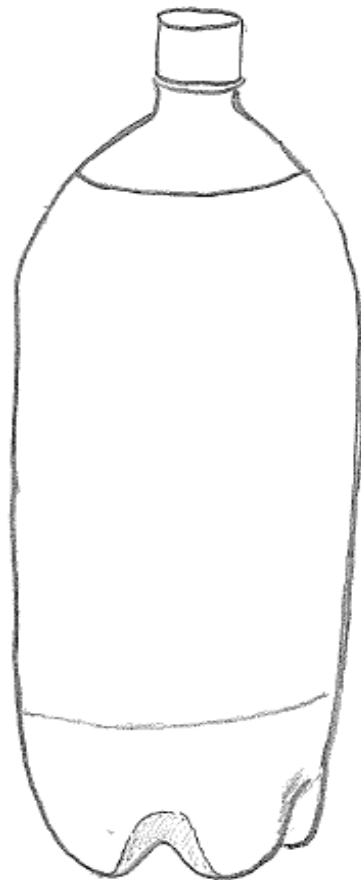
2 liters   1 liter

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 units

Clock:
Minutes, One-half Hour, One Hour

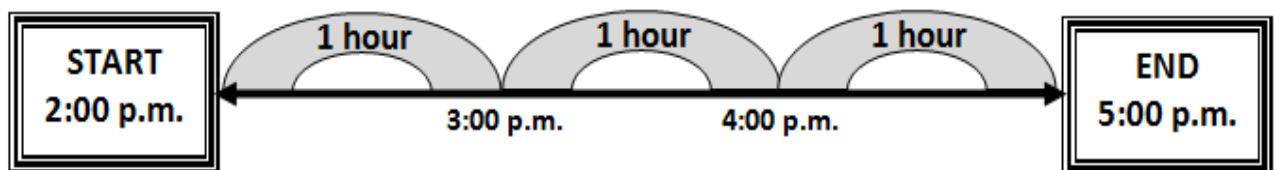digital   analog

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
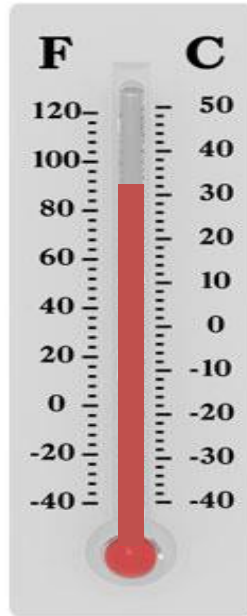
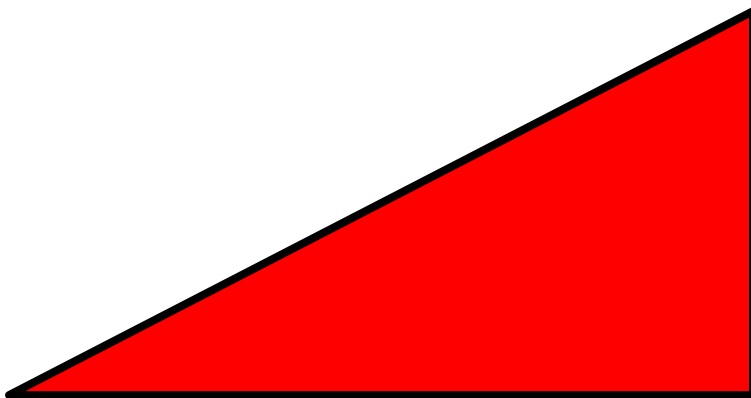
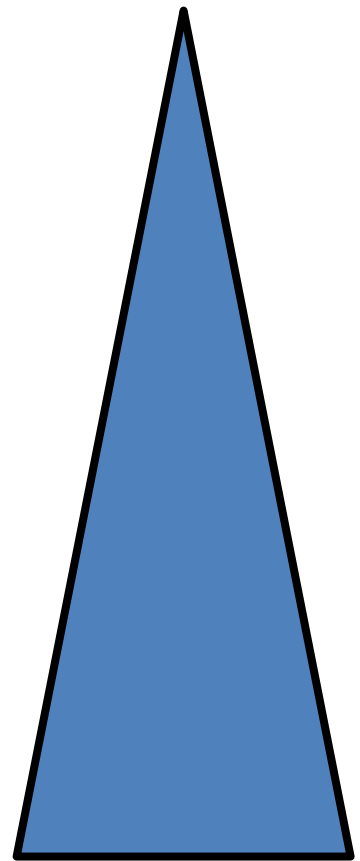
temperature

degrees °

Fahrenheit

Celsius

Plane Figures

rectangle
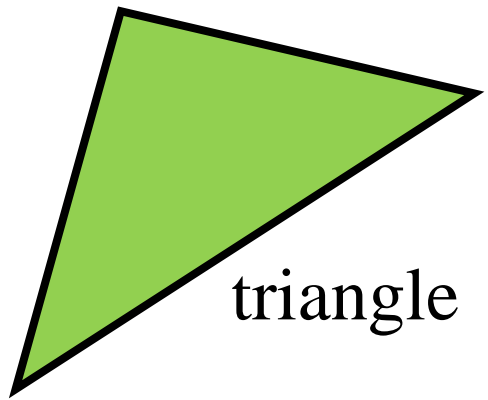
triangle
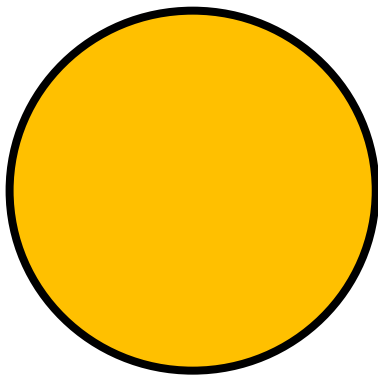
circle
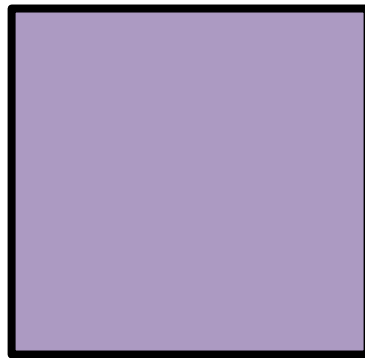
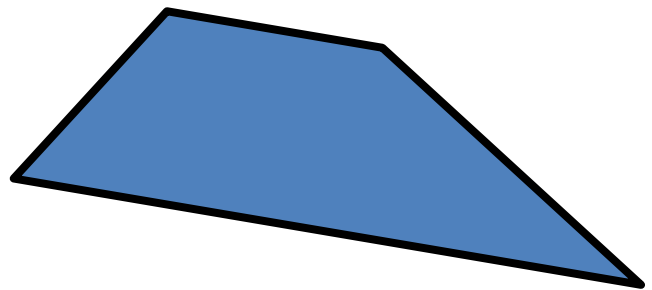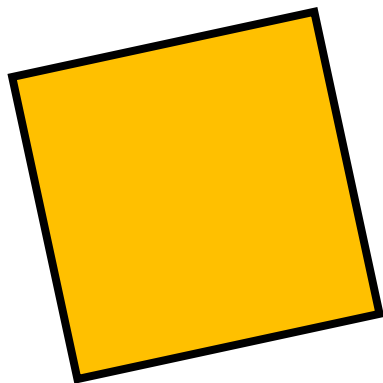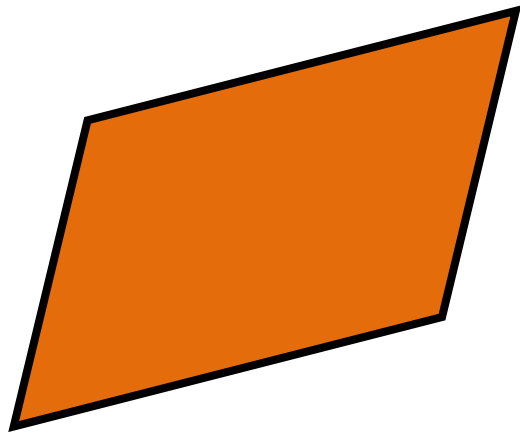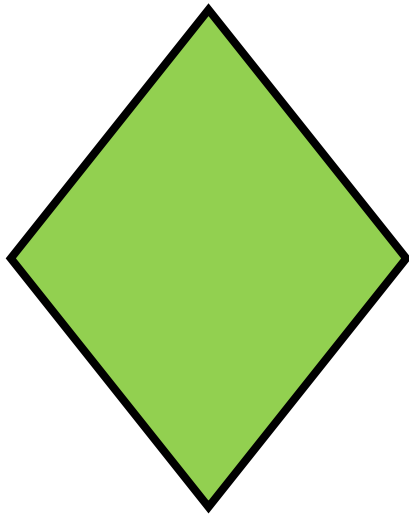square

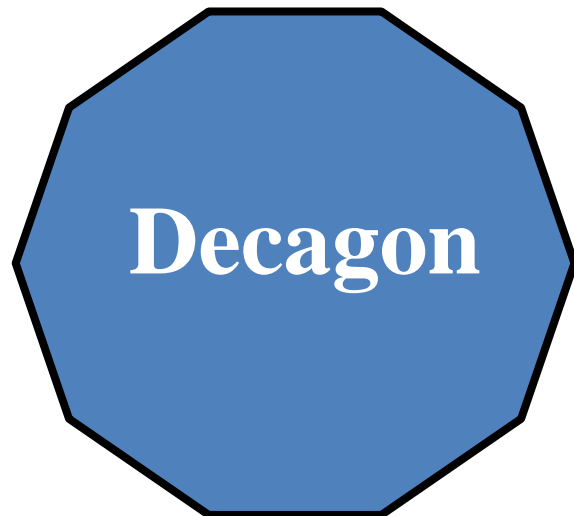# Polygons:
Triangles
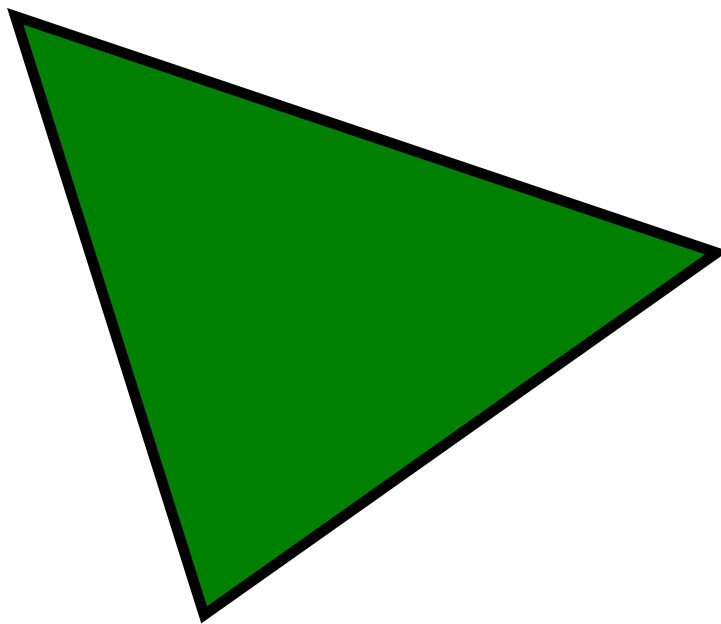
Polygons:
Quadrilaterals
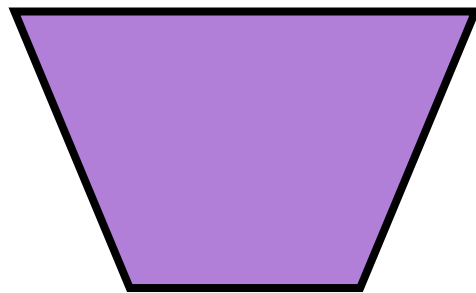
Polygons:
Pentagon, Hexagon, Heptagon, and Octagon

Pentagon

Hexagon

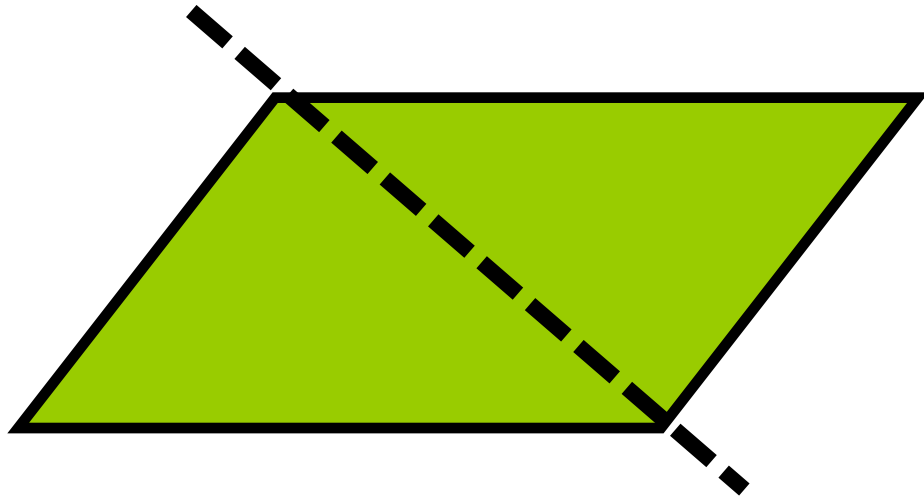**Heptagon**
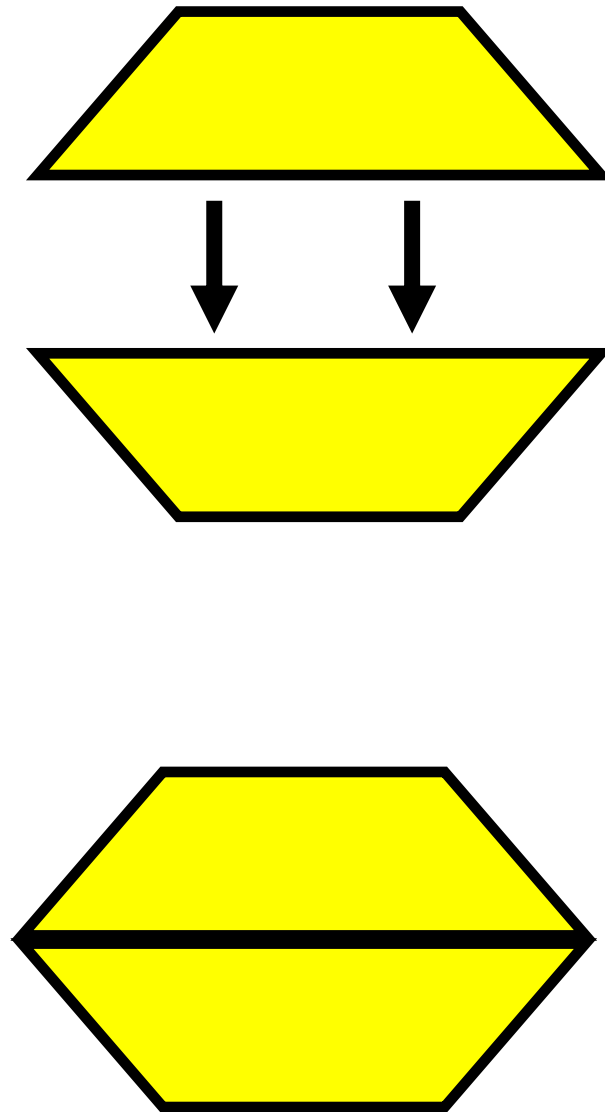
Octagon

Polygons:
Nonagon and Decagon

Nonagon

Decagon
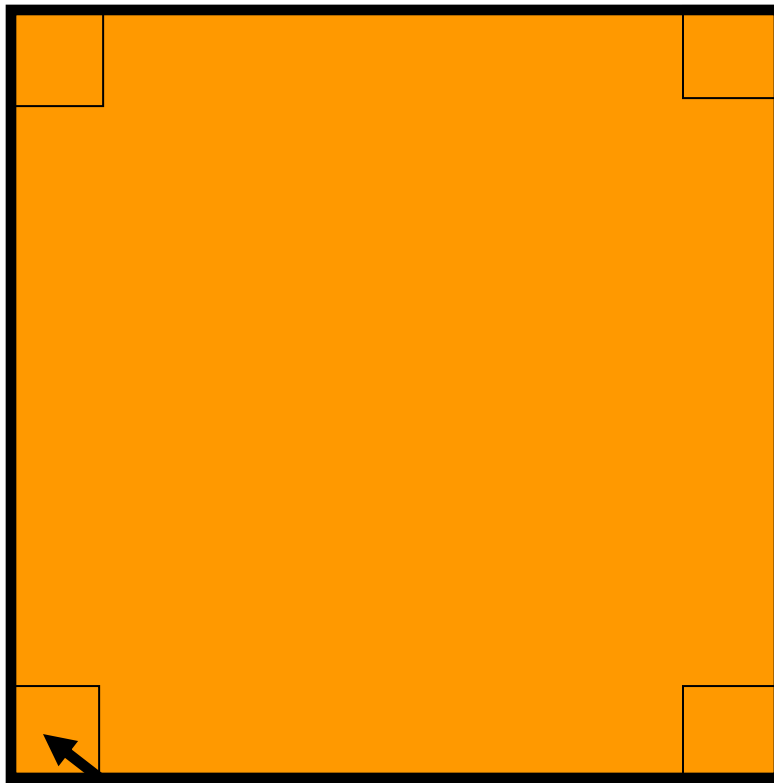
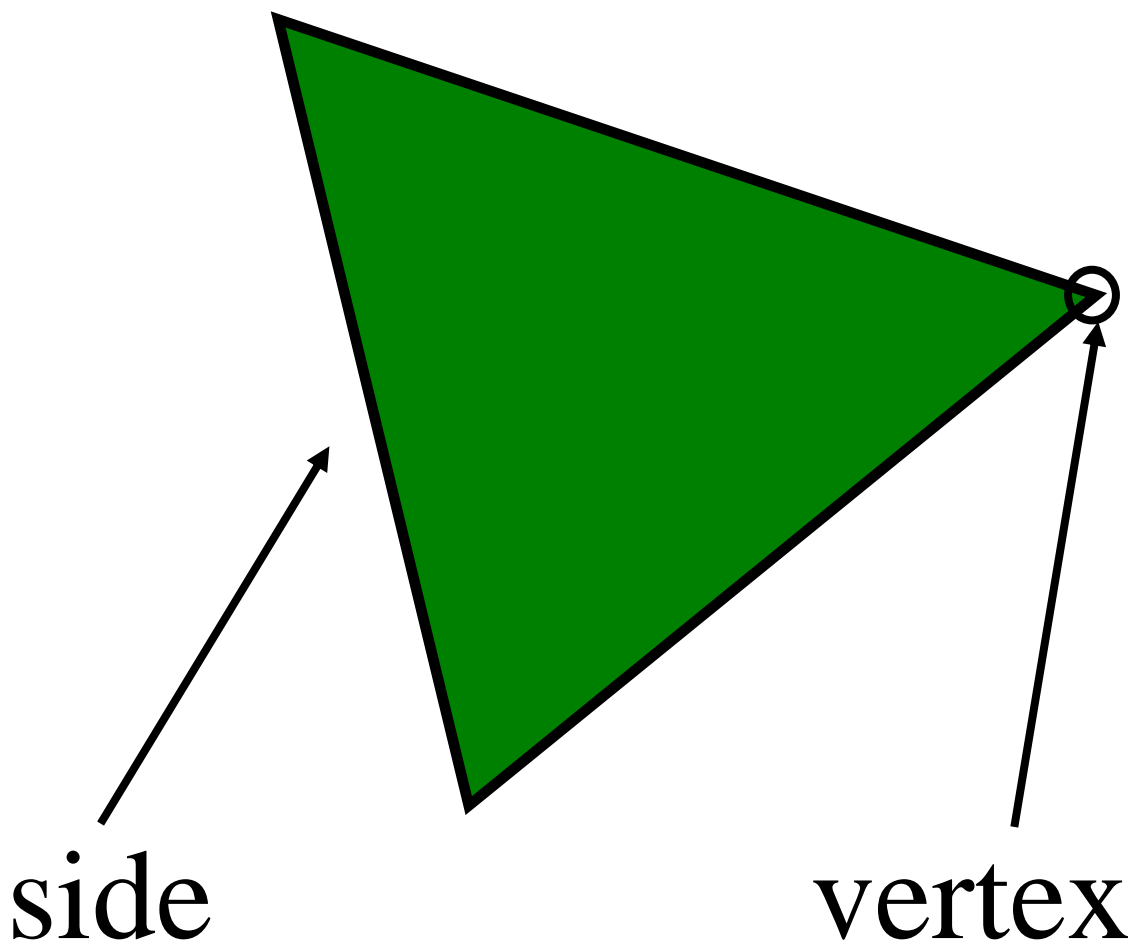# Subdivide

Combine

Rectangle:
Right Angle

right angle

Square:
Right Angle

right angle
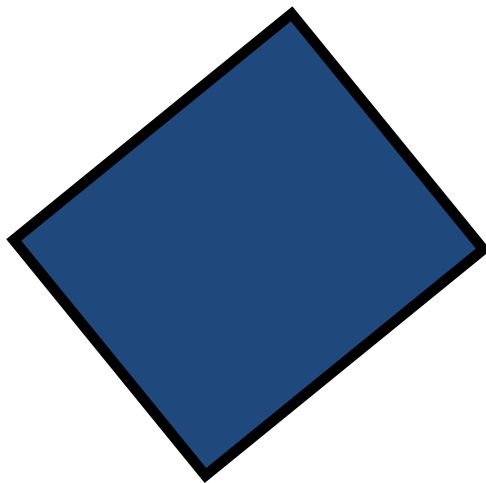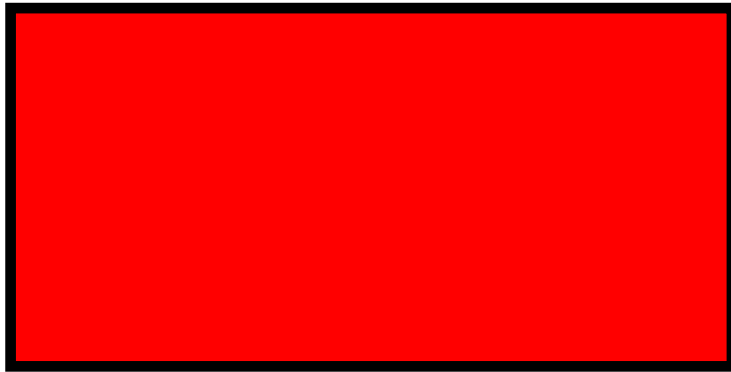
Triangle:
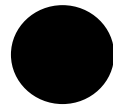## Side and Vertex
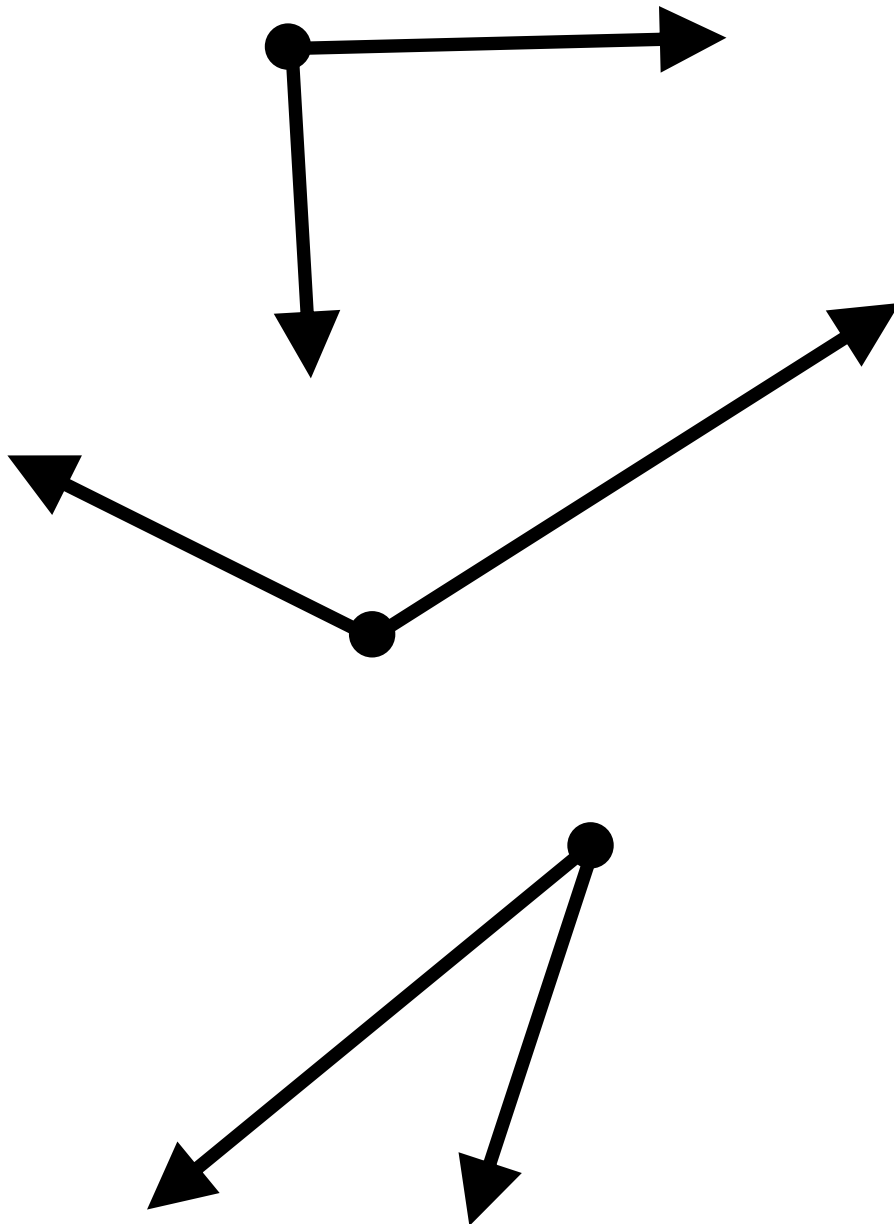

side

vertex
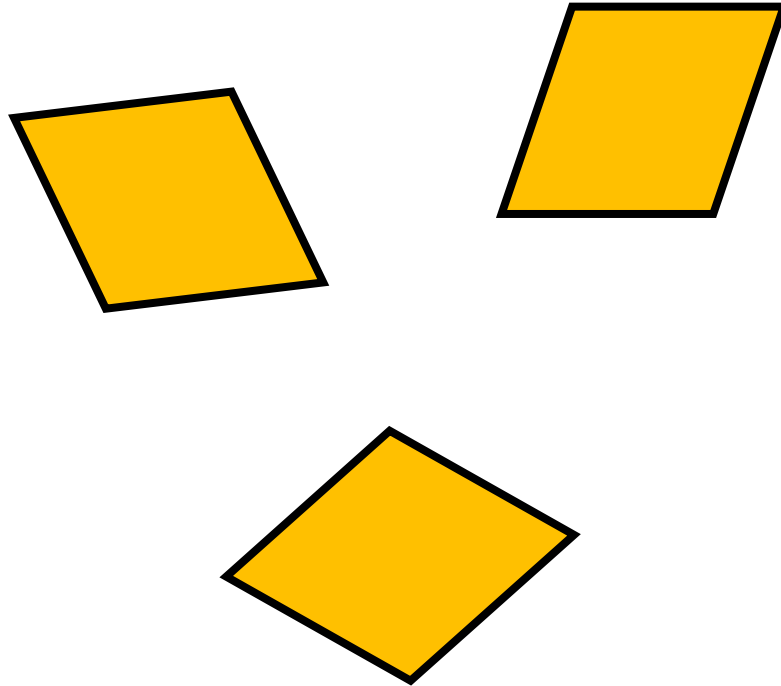
Congruent

same shape and size
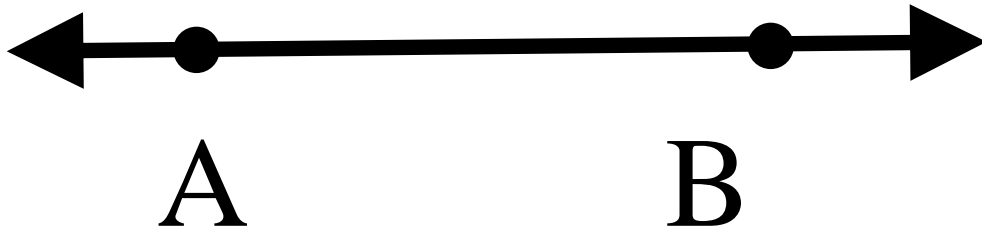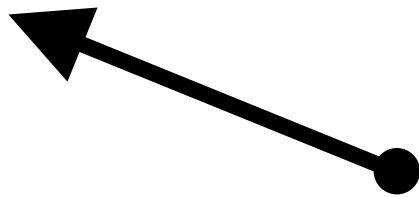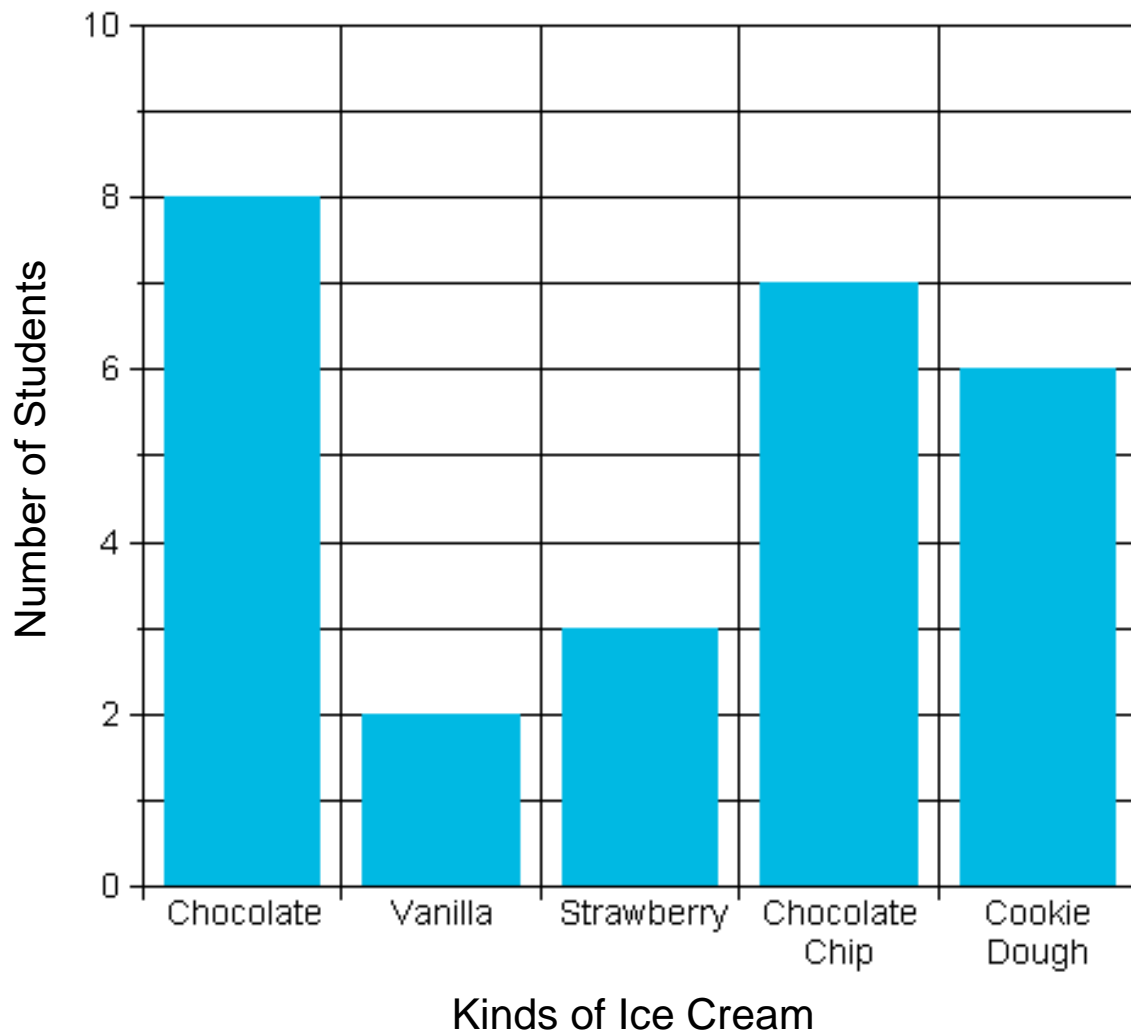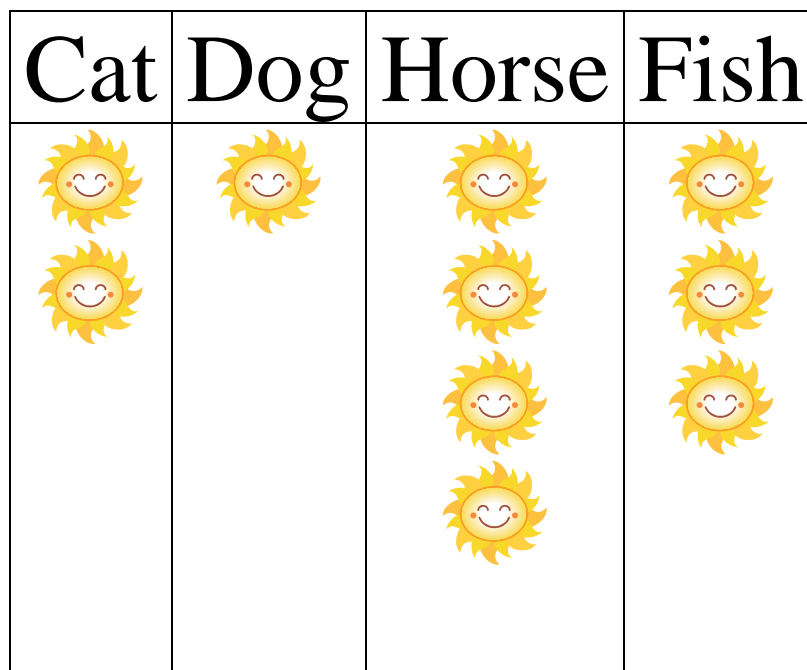
Noncongruent

Line Segment
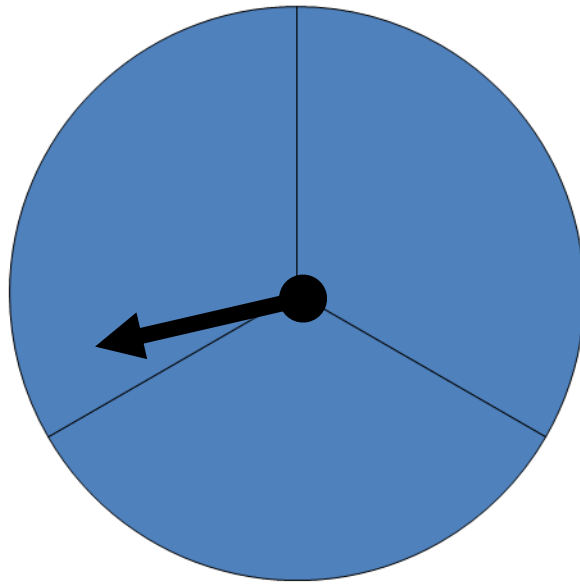
Point

Angle

Line

A   B

Ray

Bar Graph

Our Favorite Ice Cream

Pictograph

Our Favorite Pets

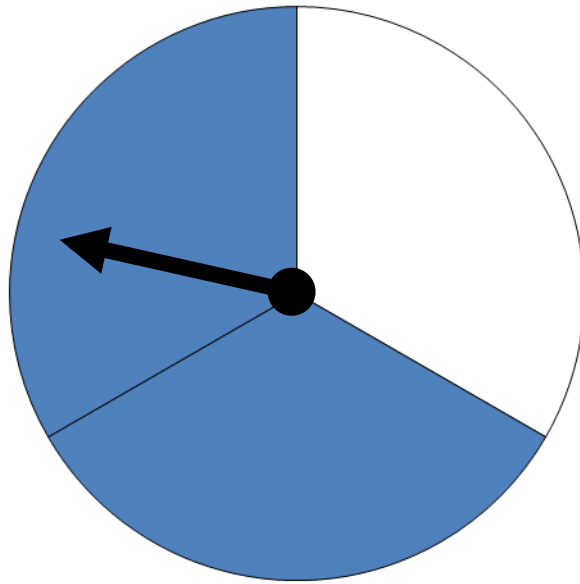| Cat	Dog	Horse	Fish

☀ = 2 students
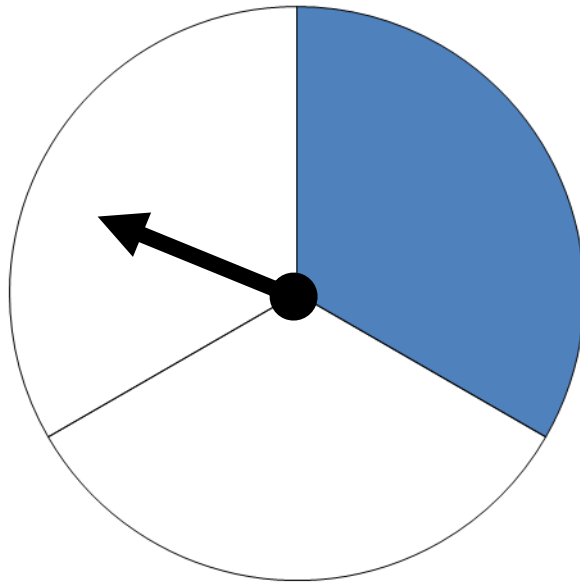
Certain

■ is certain

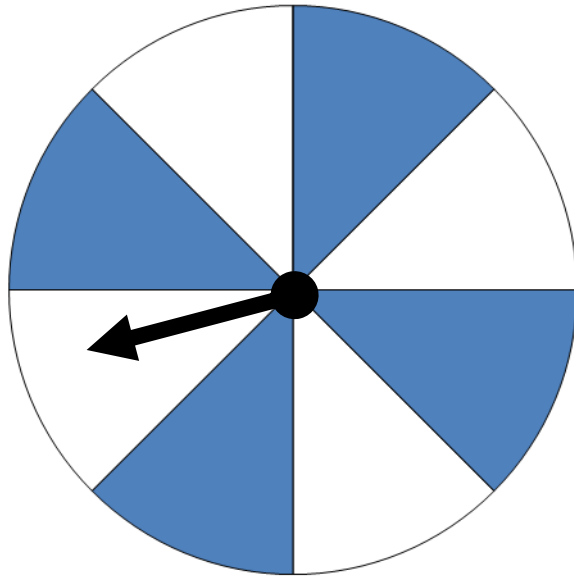# Likely

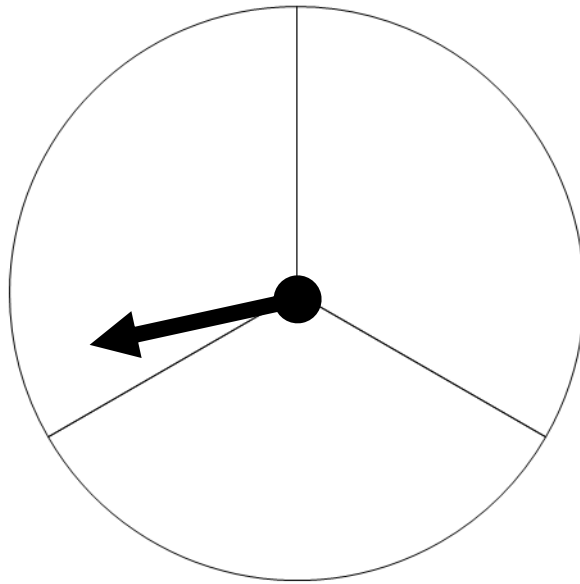

■ is likely

Unlikely

■ is unlikely

Equally Likely

■ and □ are equally likely
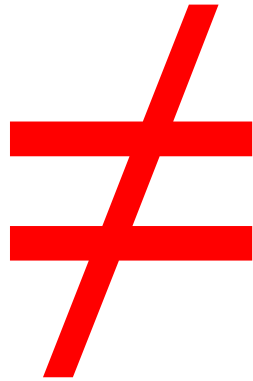
Impossible

■ is impossible

Equal

$=$

$$2 + 9 = 9 + 2$$

$$13 - 4 = 12 - 3$$

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

Not Equal

$$\neq$$

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

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

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

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