

Grade 5 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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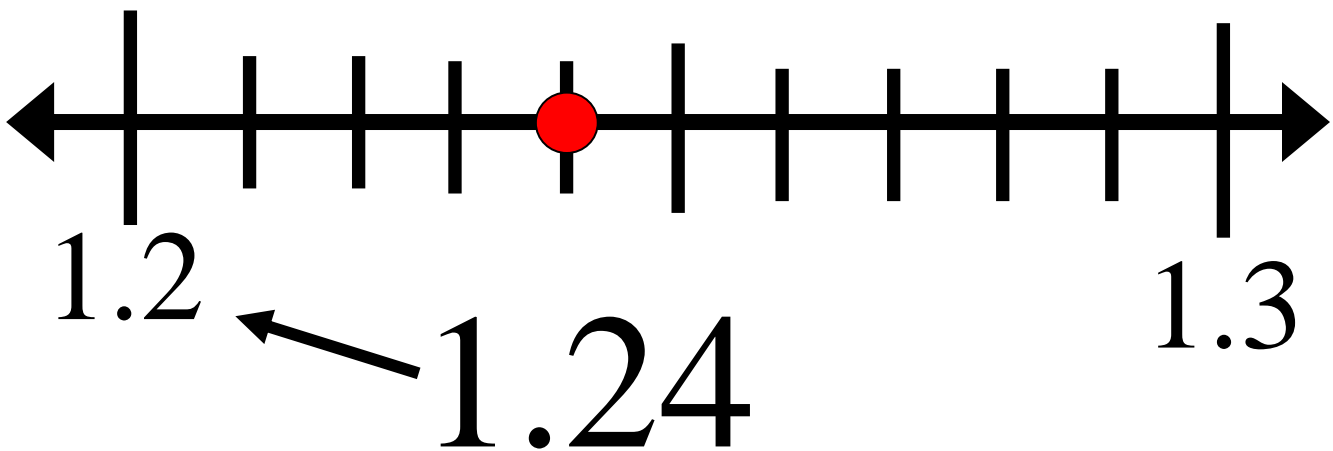
Decimal Place Value Position

Ones		Tenths	Hundredths	Thousandths
3	.	7	2	1



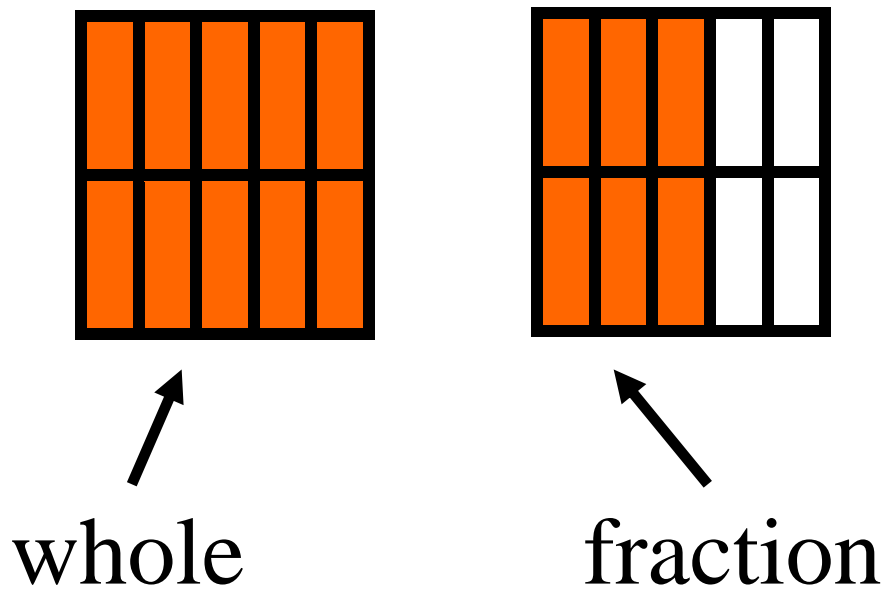
decimal point

Round



Round 1.24 to the
nearest tenth.

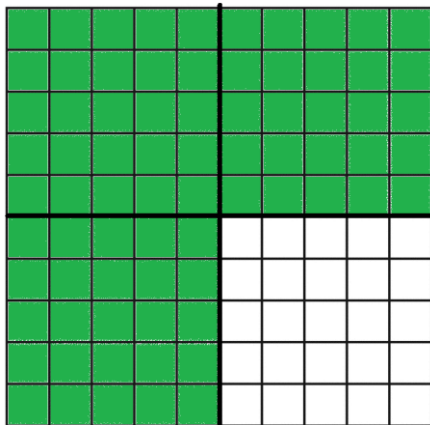
Mixed Number



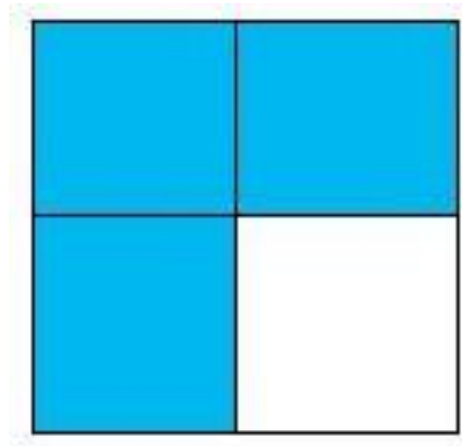
$$\frac{16}{10} = 1 \frac{6}{10} = 1.6$$

Equivalent

$$\frac{75}{100} = \frac{3}{4}$$



=



0.75

=

$\frac{3}{4}$

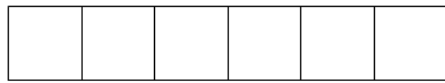
Prime Number

has exactly two different factors, 1 and itself

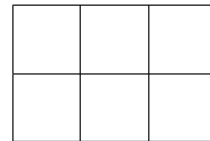
Prime numbers to 100				
2	3	5	7	11
13	17	19	23	29
31	37	41	43	47
53	59	61	67	71
73	70	83	89	97

Composite Number

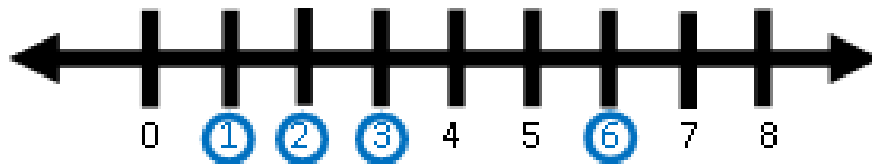
has factors other than one
and itself



$$1 \times 6 = 6$$

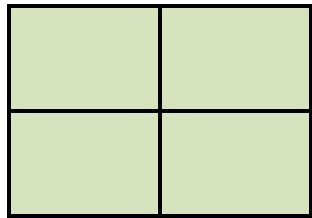


$$2 \times 3 = 6$$

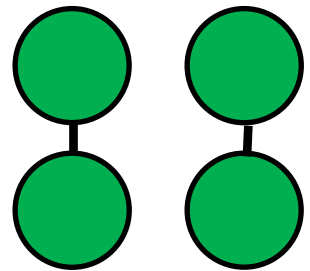


factors of 6: 1, 2, 3, 6

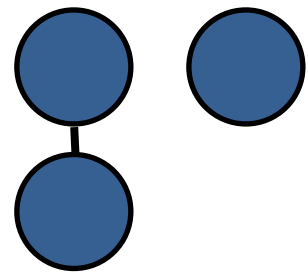
Even and Odd Numbers



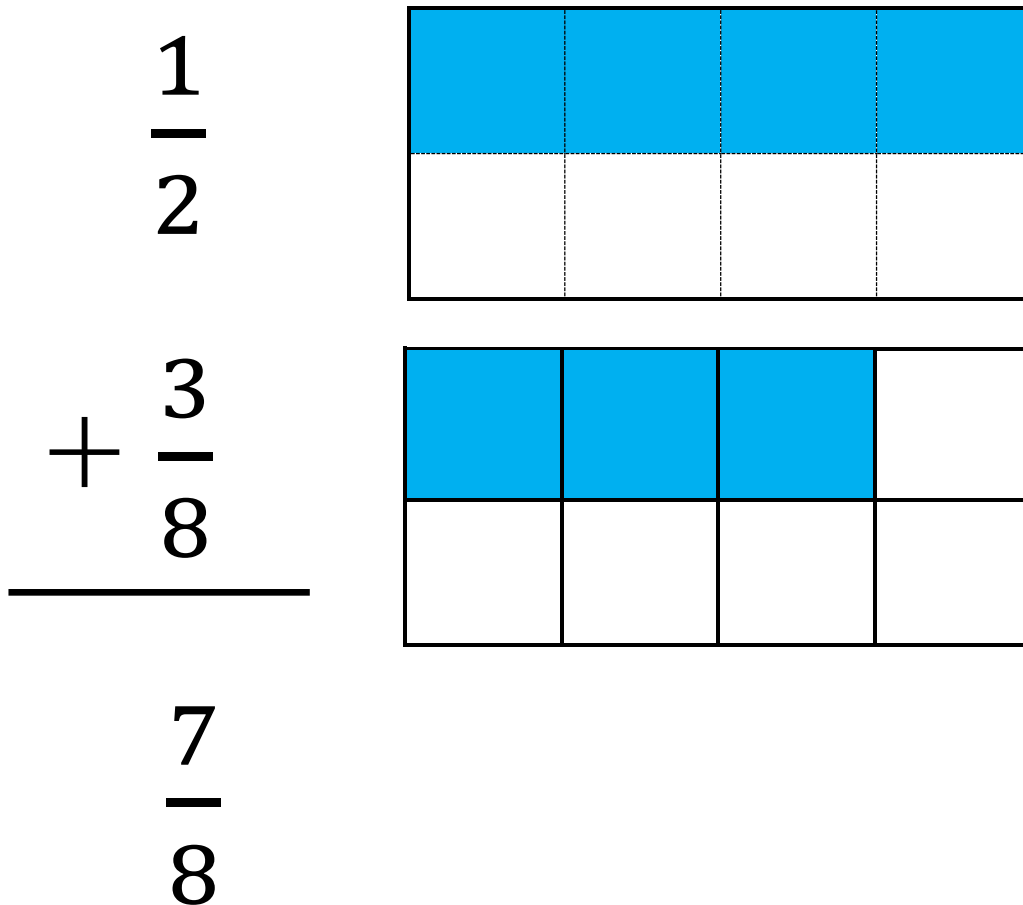
4 – even



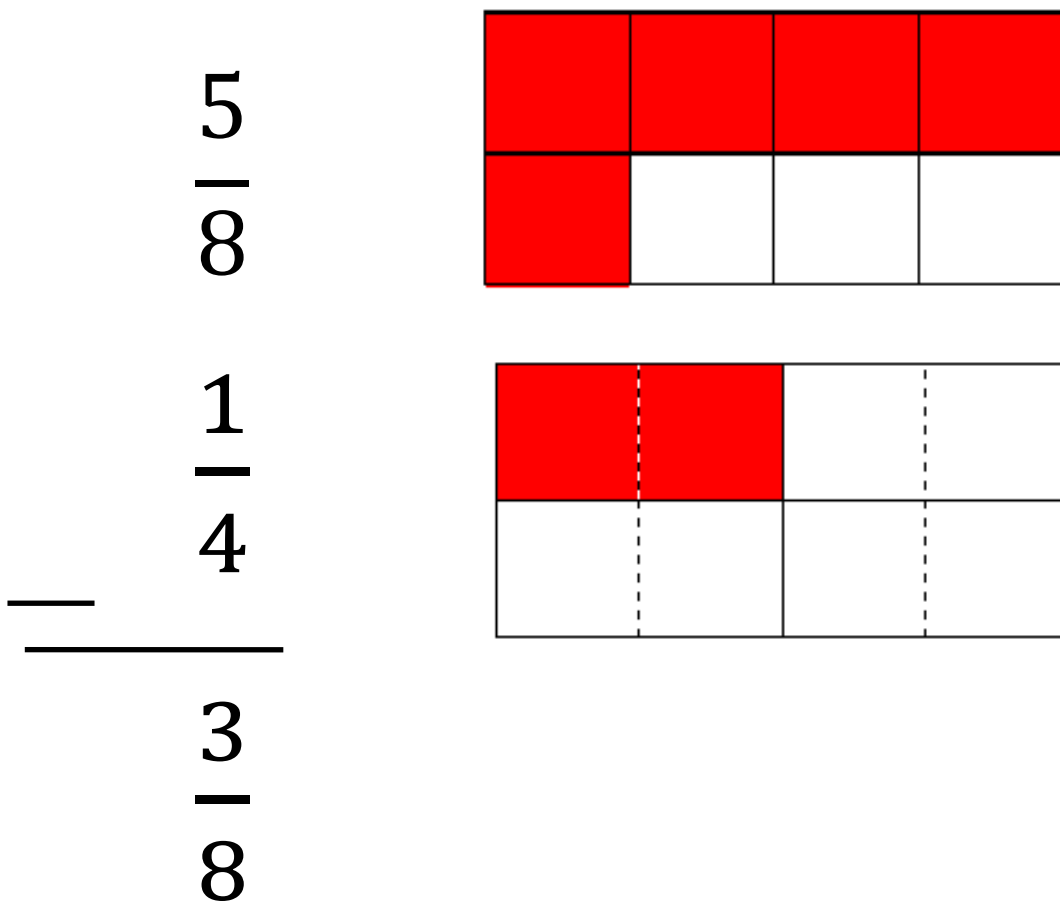
3 - odd



Fraction: Addition



Fraction: Subtraction



Least Common Multiple

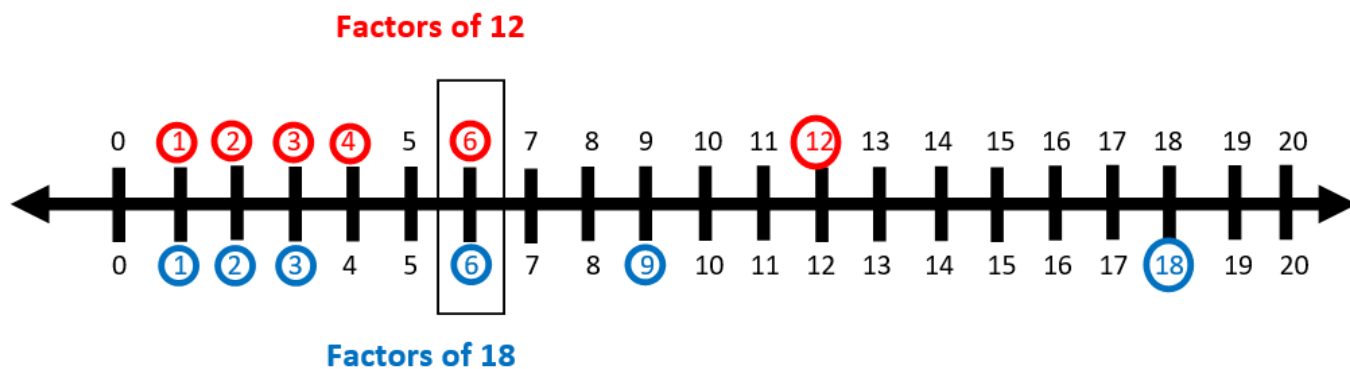
Multiples of 12	Multiples of 18
$1 \times 12 = 12$	$1 \times 18 = 18$
$2 \times 12 = 24$	$2 \times 18 = 36$
$3 \times 12 = 36$	$3 \times 18 = 54$
$4 \times 12 = 48$	

LCM is 36.

Greatest Common Factor

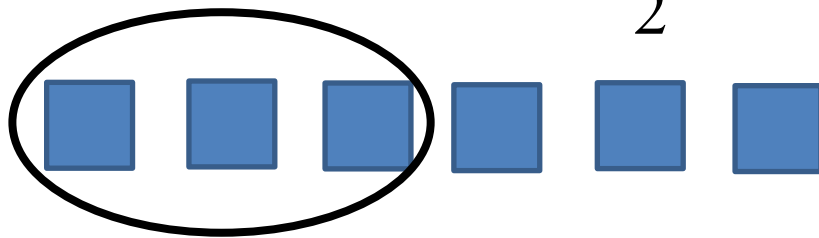
Factors of 12	Factors of 18
$1 \times 12 = 12$	$1 \times 18 = 18$
$2 \times 6 = 12$	$2 \times 9 = 18$
$3 \times 4 = 12$	$3 \times 6 = 18$
1, 2, 3, 4, 6 , 12	1, 2, 3, 6 , 9, 18

GCF is 6.



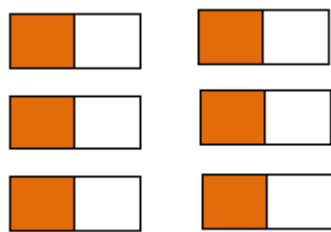
Unit Fraction Multiplication

How much is $\frac{1}{2} \times 6$?

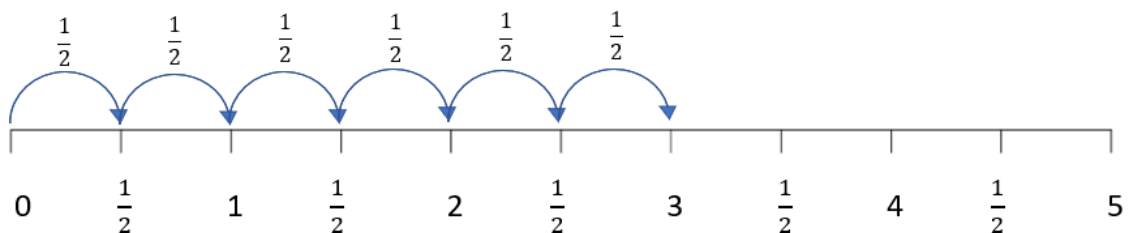


$$\frac{1}{2} \times 6 = 3$$

How much is $6 \times \frac{1}{2}$?

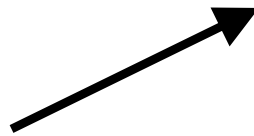


$$6 \times \frac{1}{2} = \frac{6}{2} = 3$$

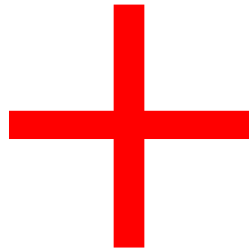


Addition

$$4.65 + 1.24 = 5.89$$



sum



plus

Subtraction

$$4.65 - 1.24 = 3.41$$

difference



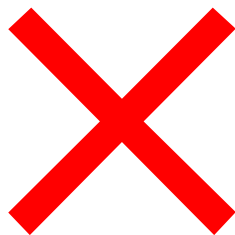
minus

Multiply:

Product

$$32 \times 48 = 1,536$$

product



Divide:

Quotient

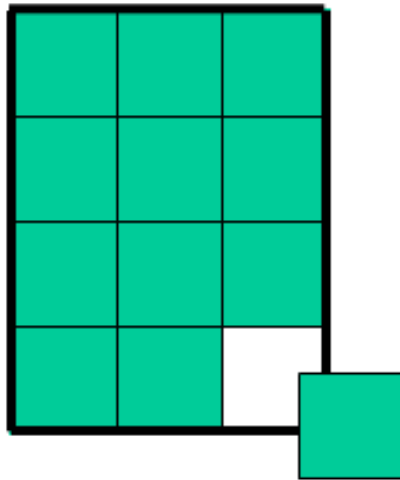
$$14 \overline{)280} \begin{array}{r} 20 \\ \hline \end{array}$$

$$\frac{280}{14} = 20$$

$$280 \div 14 = 20$$

Area: Square Units

the number of square units needed to cover
a surface or plane figure



$$l \times w$$

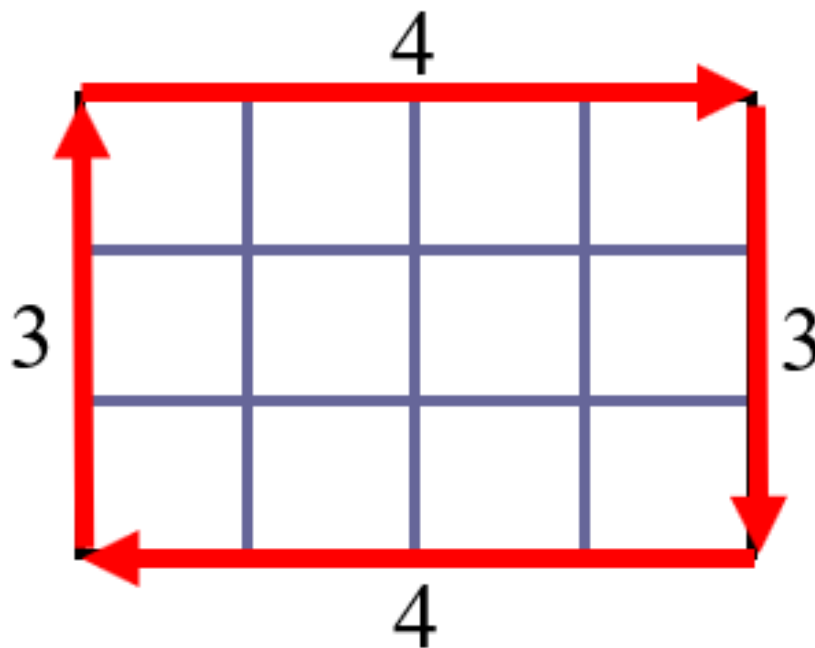
$$4 \times 3 = 12$$

Area = 12 square units

Perimeter:

Units

the measure of the path or distance around any plane figure in units



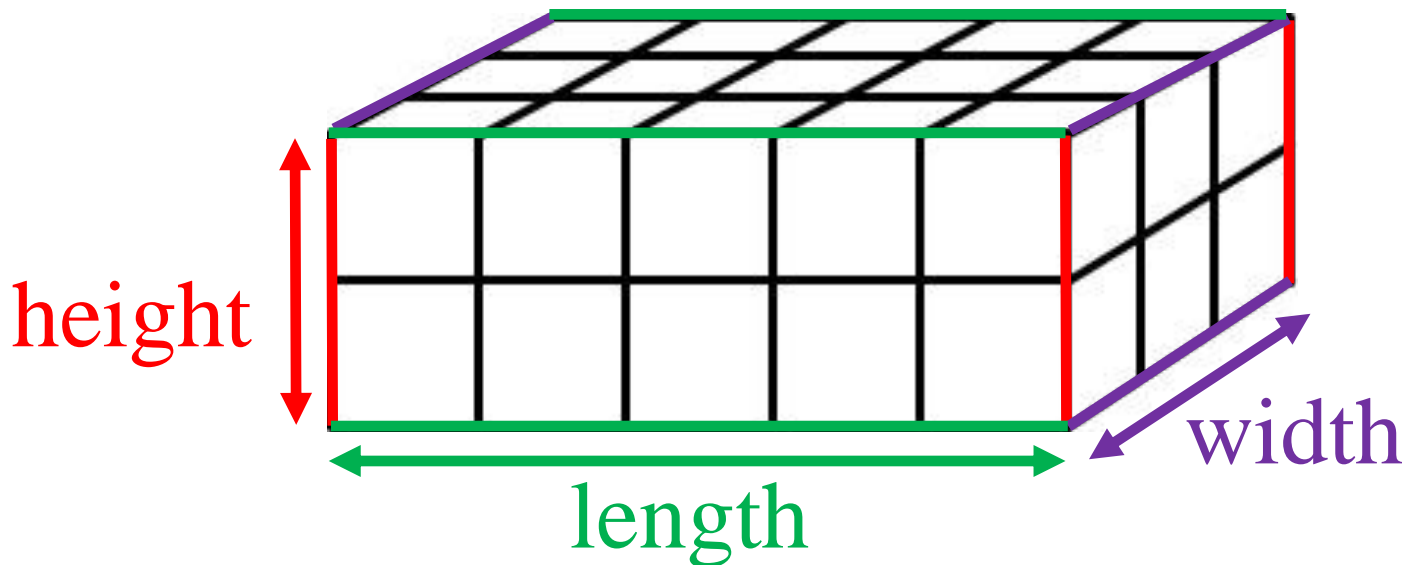
$$3 + 4 + 3 + 4$$

Perimeter = 14 units

Volume:

Height, Width, Length

the measure of capacity of a 3-D figure,
measured in cubic units



$$l \times w \times h$$

$$5 \times 3 \times 2$$

$$\text{Volume} = 30 \text{ cubic units}$$

Equivalent Measurements: Kilometer, Meter, and Centimeter

1 kilometer (km) = 1,000 meters (m)

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

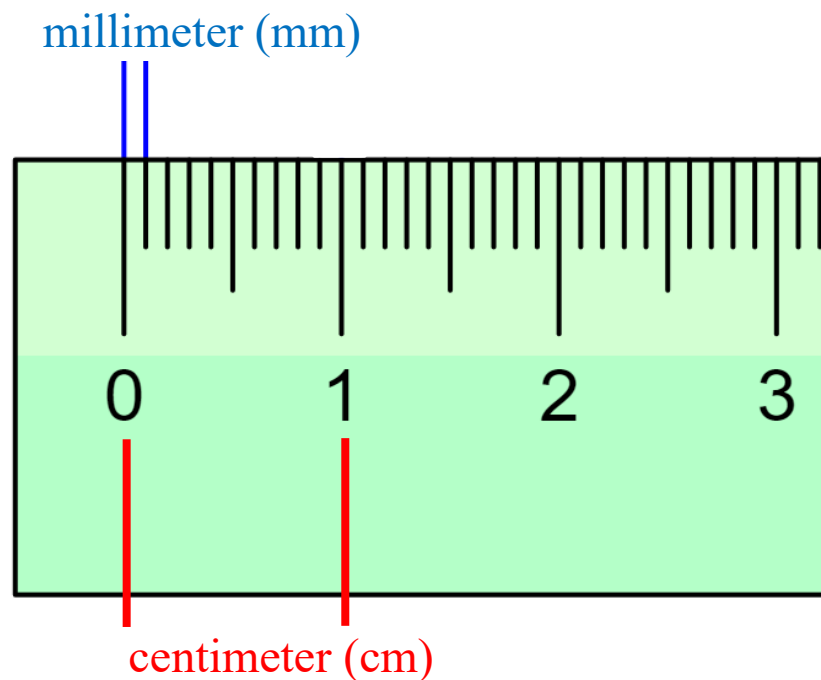
Equivalent Measurements: Kilogram and Grams

1 kilogram (kg) = 1,000 grams (g)

Equivalent Measurements: Liter and Milliliters

1 liter (l) = 1,000 milliliters (ml)

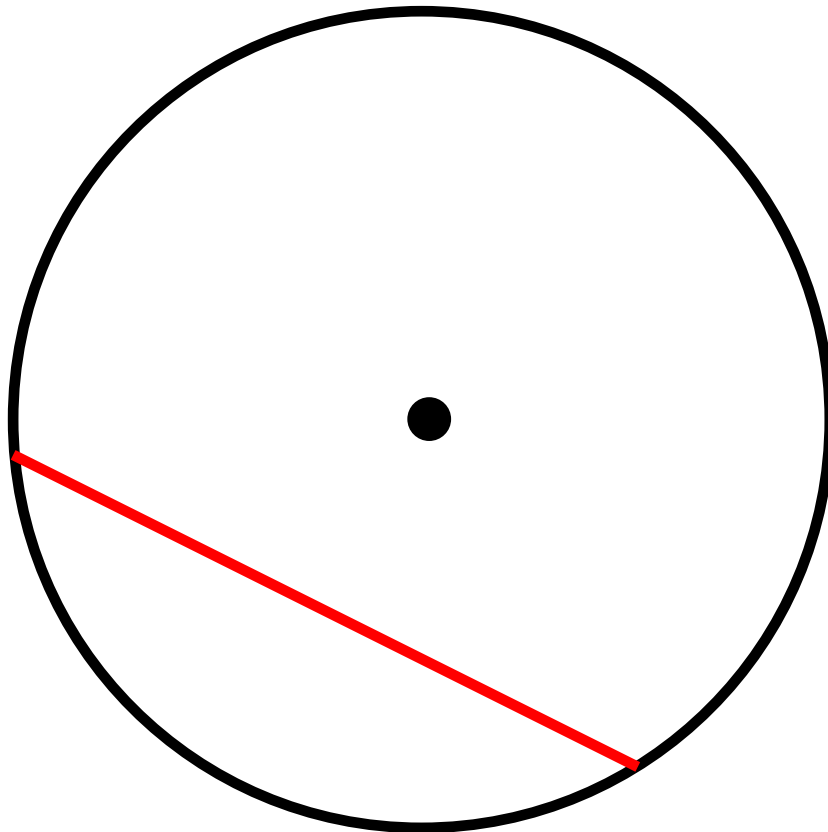
Millimeters: Centimeters



10 millimeters (mm) = 1 centimeter (cm)

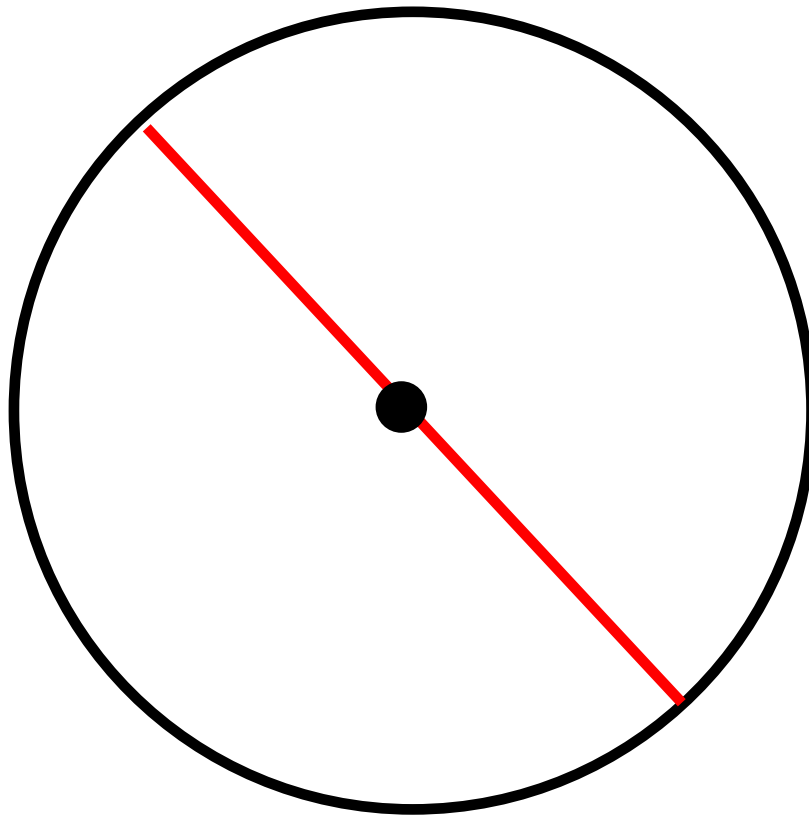
Chord

a line segment connecting any
two points on a circle



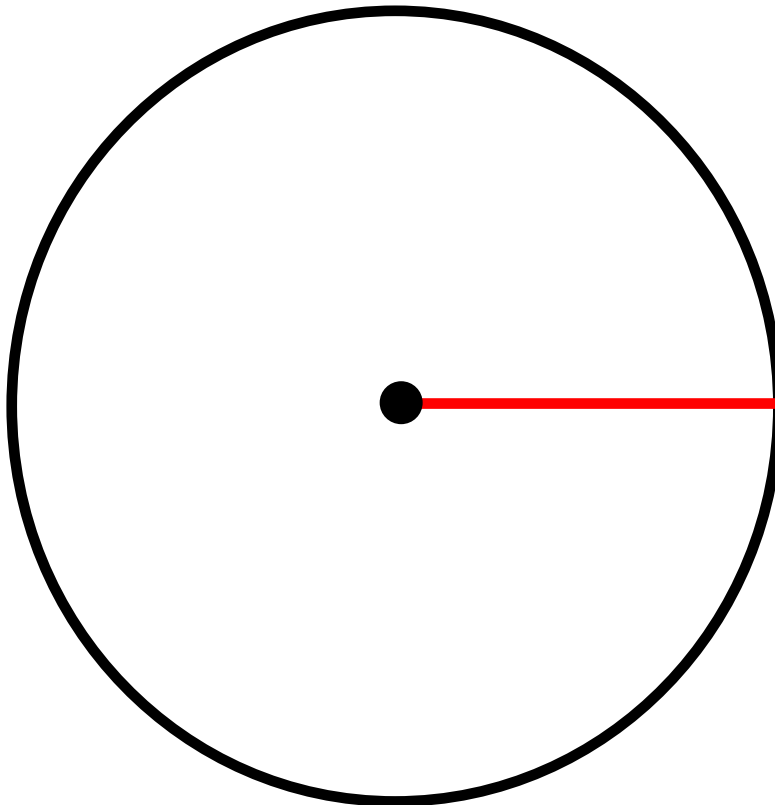
Diameter

a chord that passes through the center of a circle



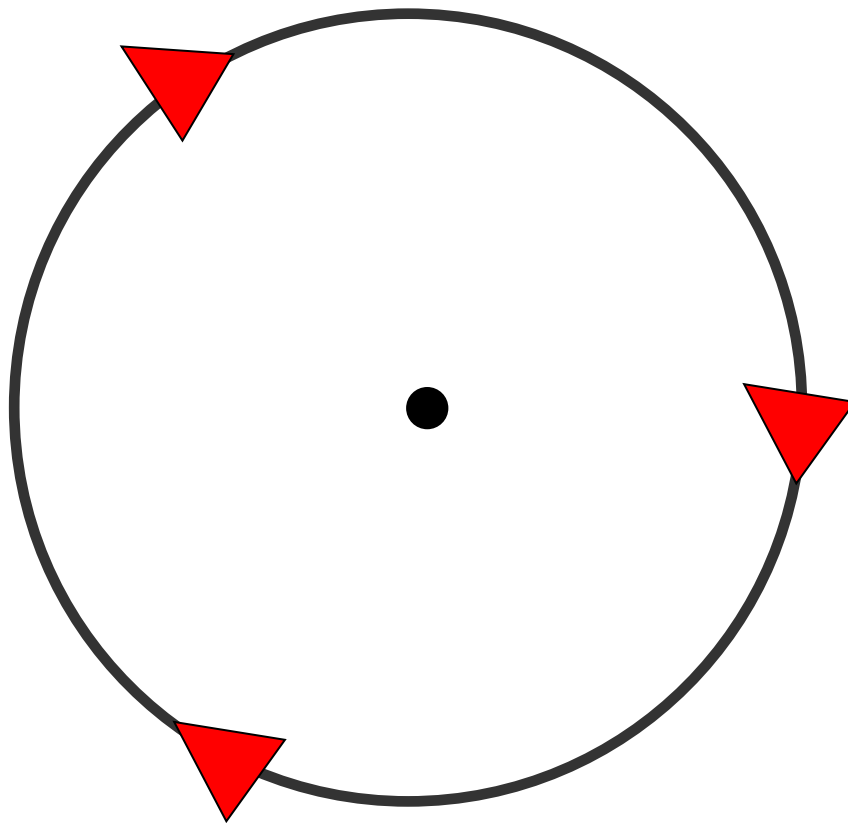
Radius

a line segment joining the center of a circle to any point on the circle

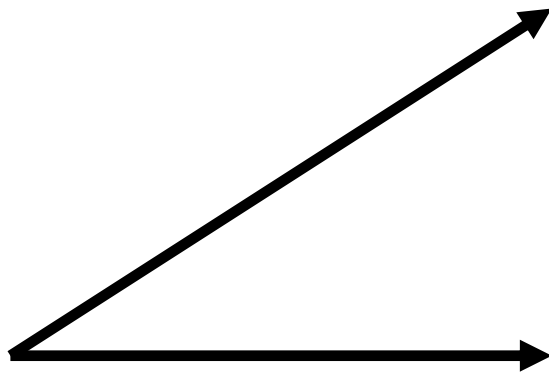


Circumference

the distance around or
“perimeter” of a circle

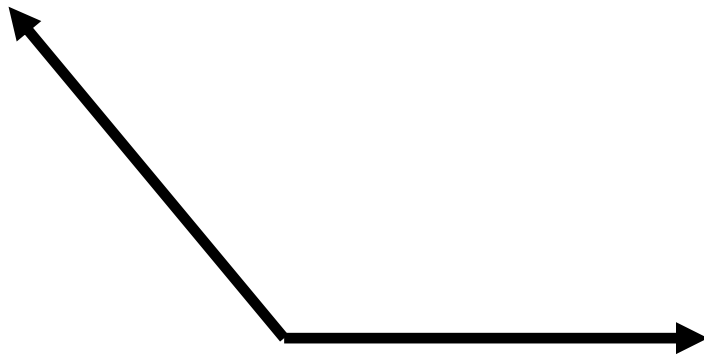


Acute Angle



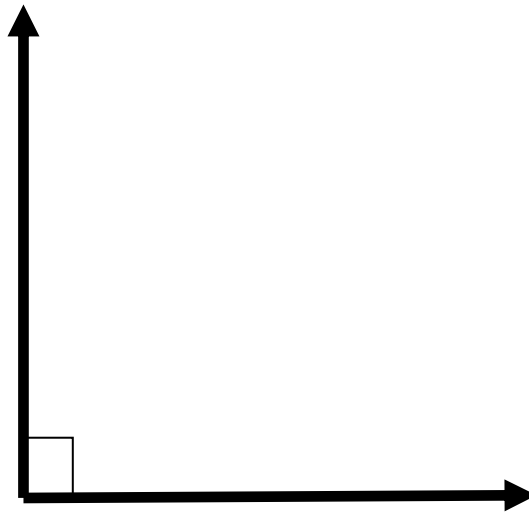
less than 90°

Obtuse Angle



greater than 90° , but less
than 180°

Right Angle



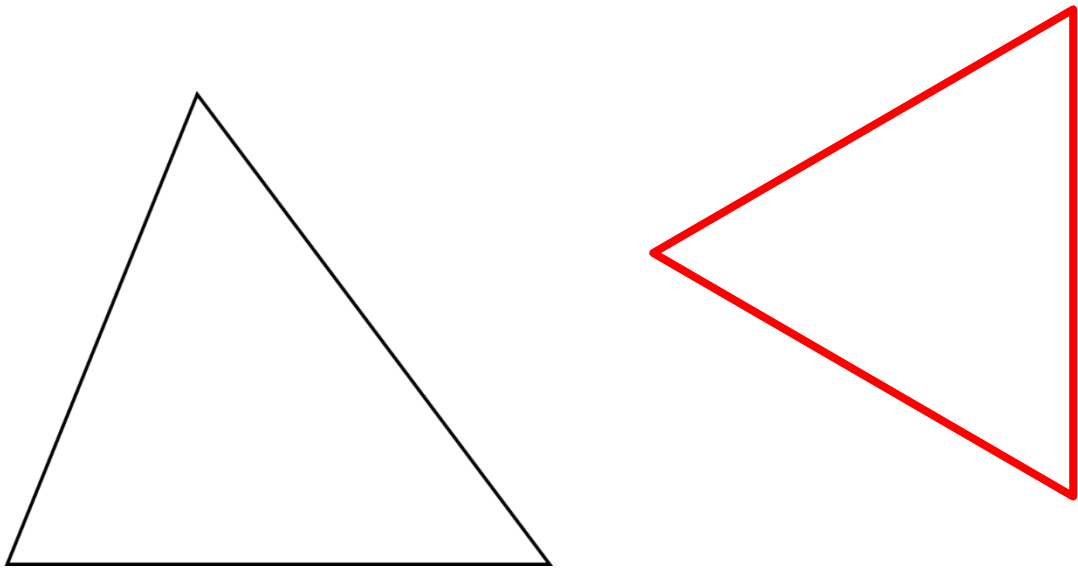
exactly 90°

Straight Angle



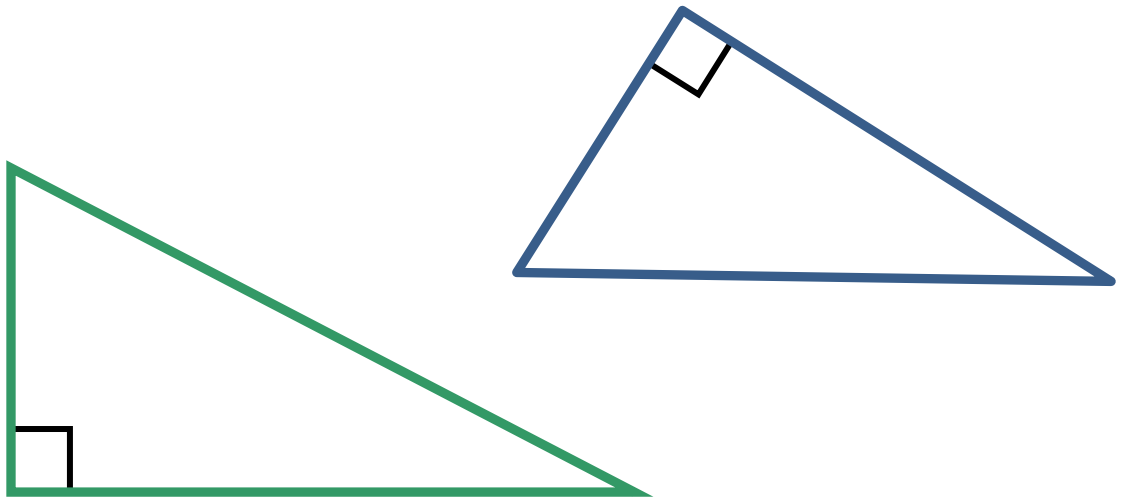
exactly 180°

Acute Triangle



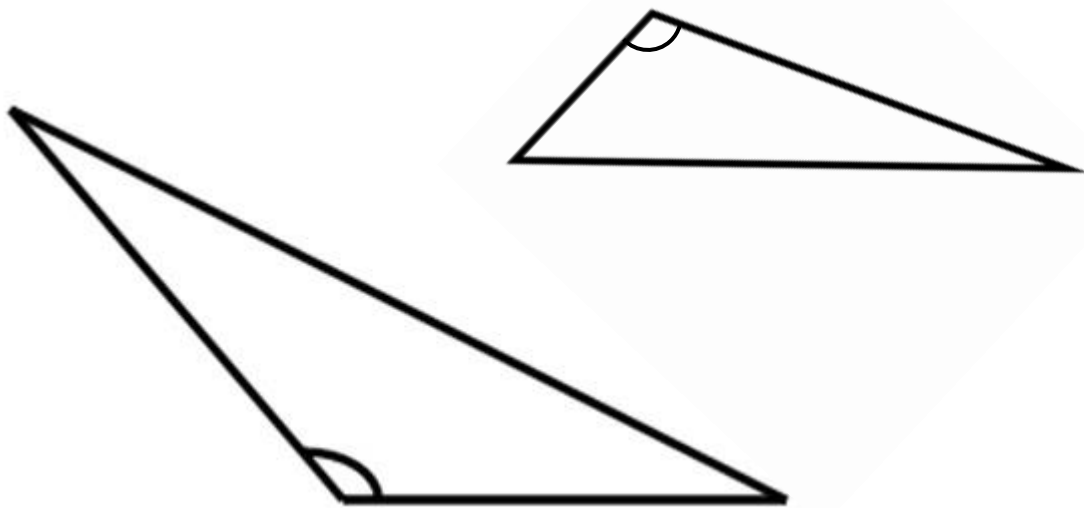
all angles less than 90°

Right Triangle



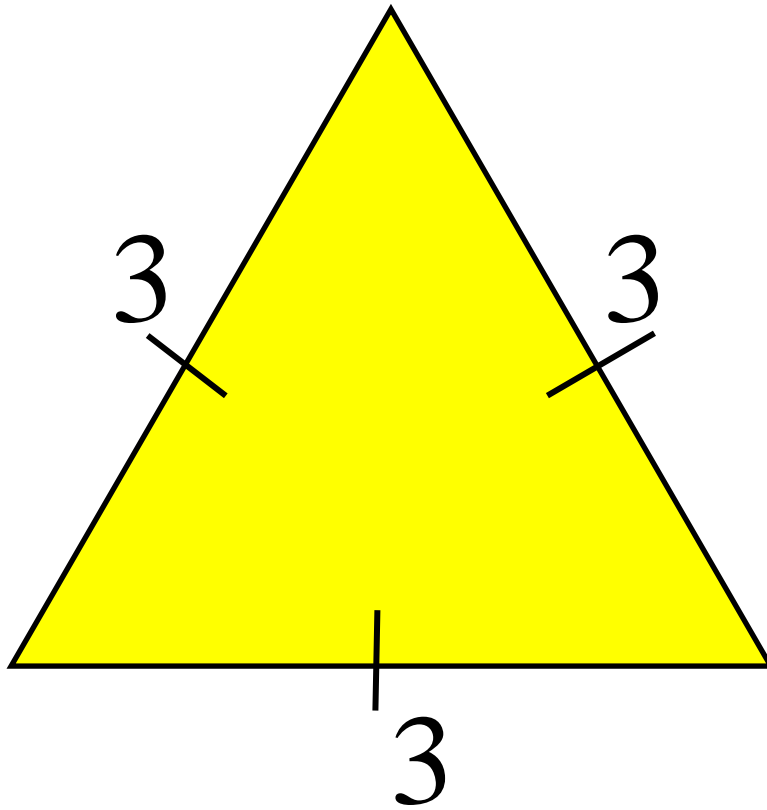
one 90° angle

Obtuse Triangle

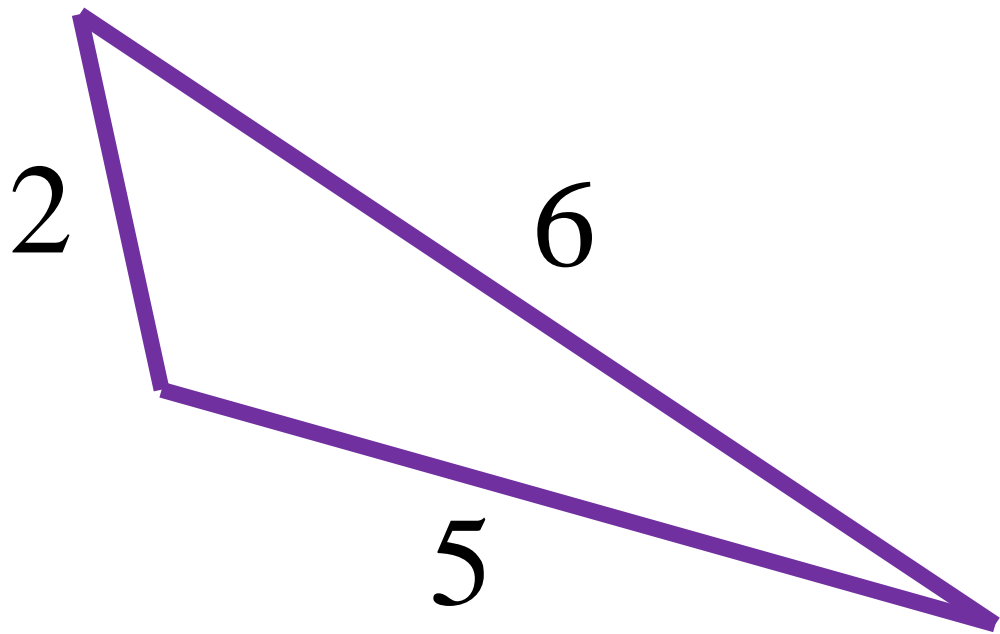


one angle greater than
 90°

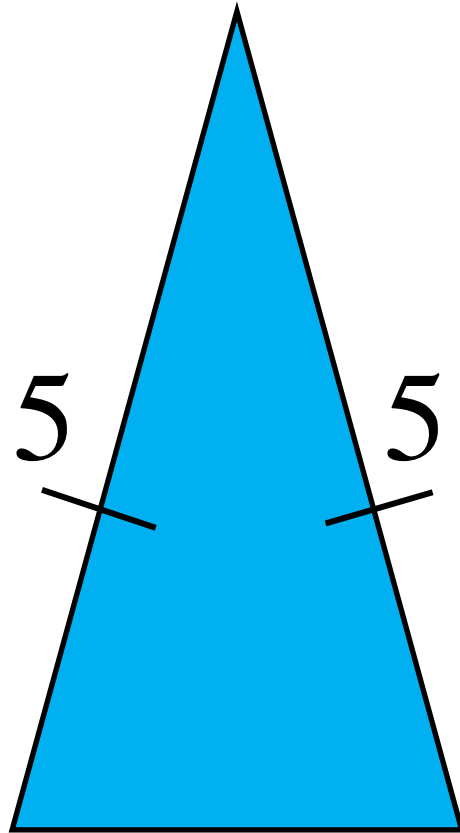
Equilateral Triangle



Scalene Triangle

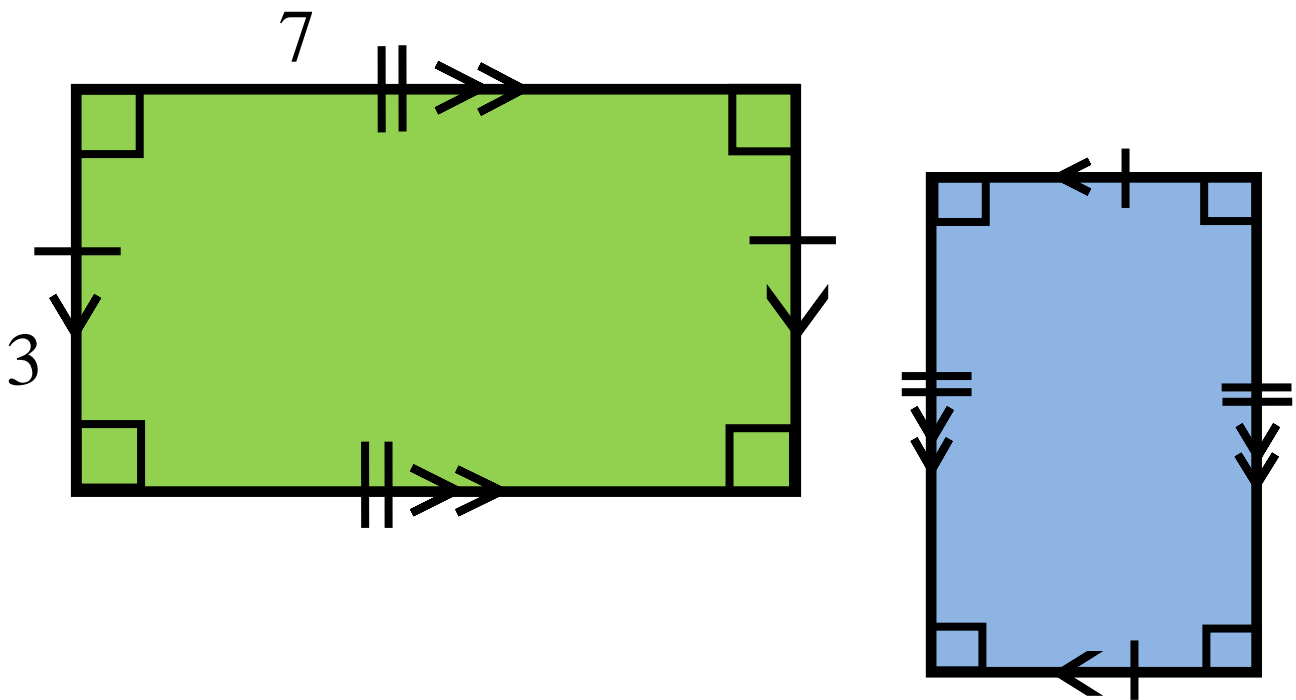


Isosceles Triangle



Rectangle:

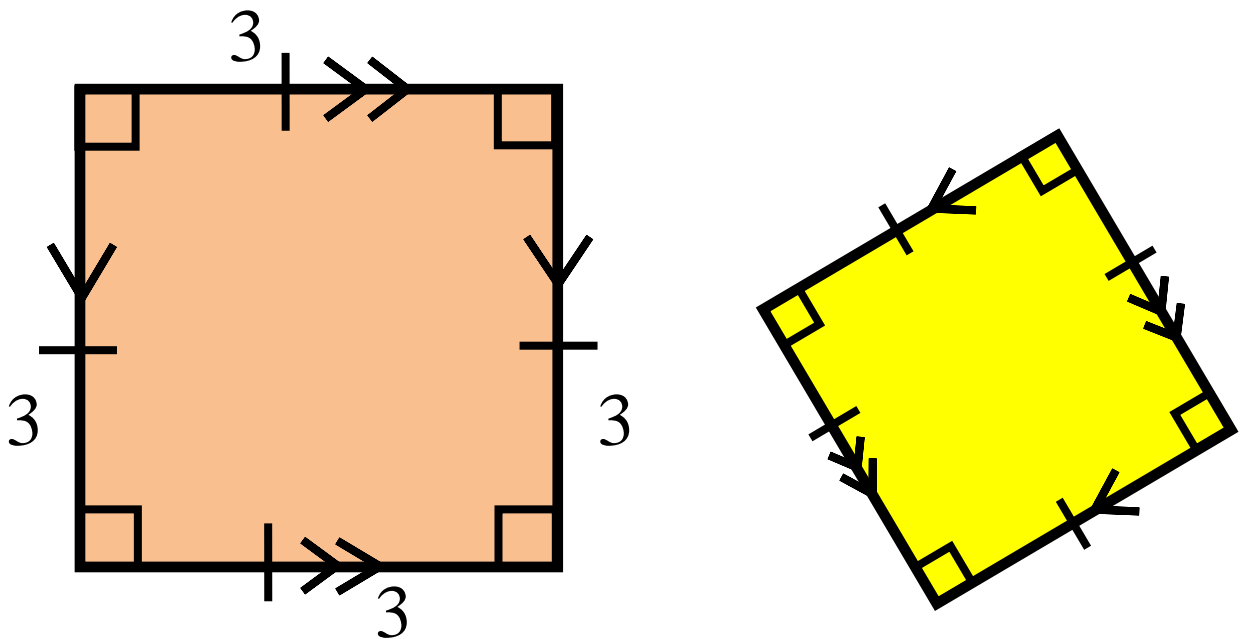
Right Angle



- 4 right angles
- opposite sides are parallel and congruent

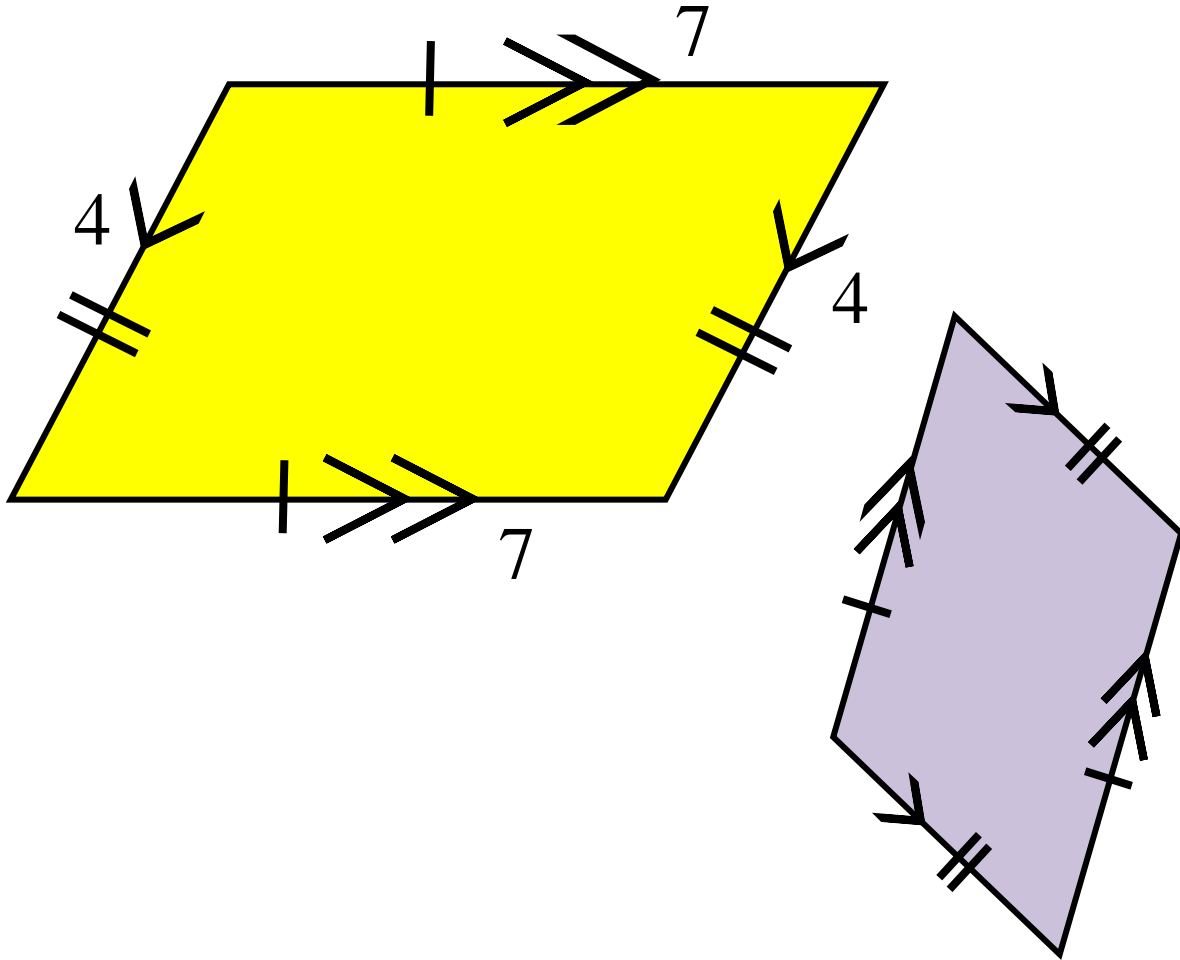
Square:

Right Angle



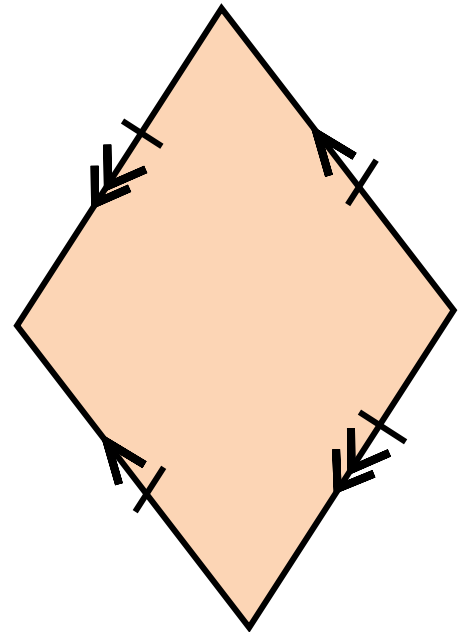
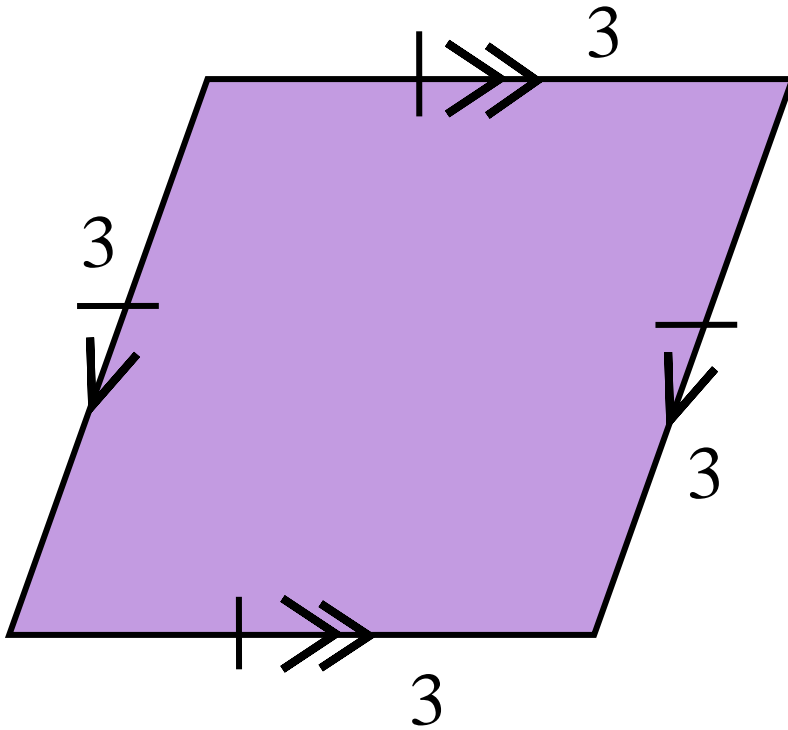
- 4 right angles
- 4 congruent sides
- 2 pairs of parallel sides

Parallelogram



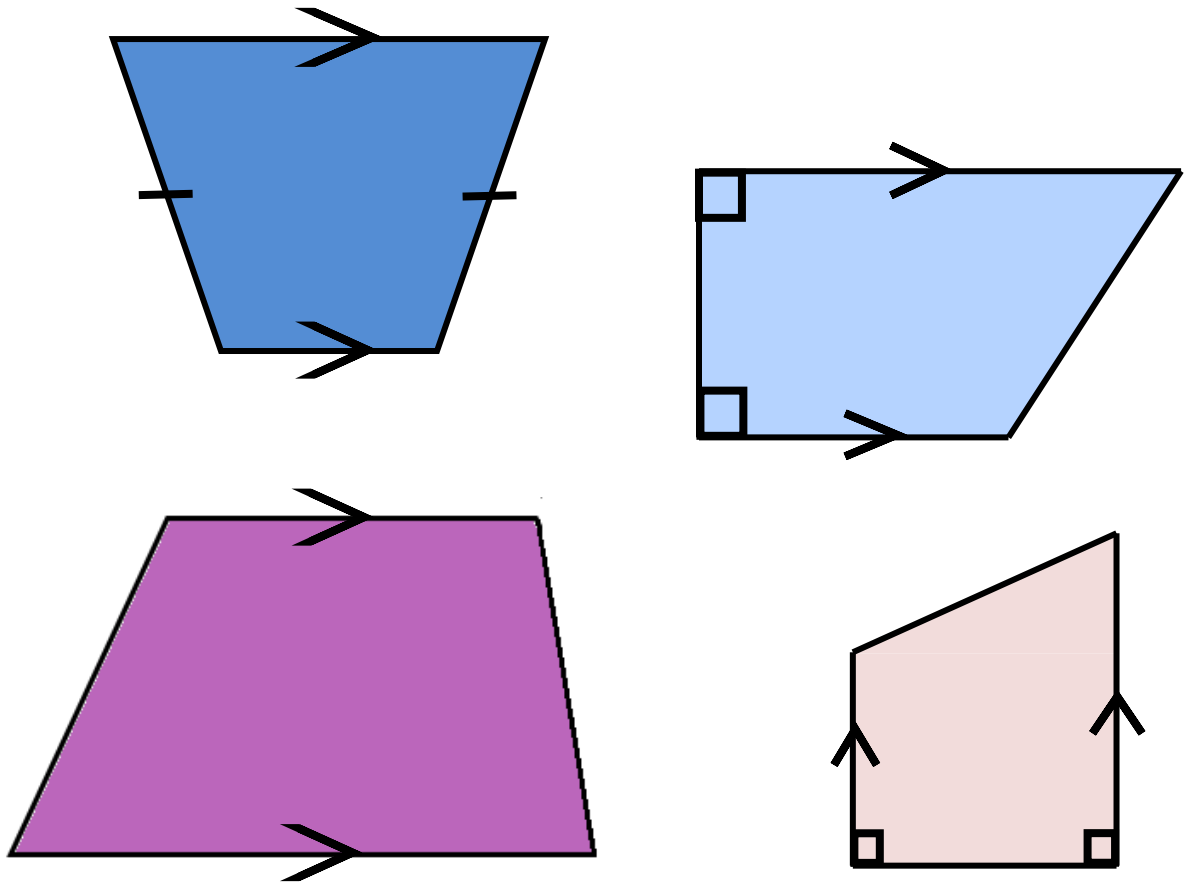
- opposite sides are parallel and congruent

Rhombus



- 4 congruent sides
- 2 pairs of parallel sides
- opposite angles are congruent

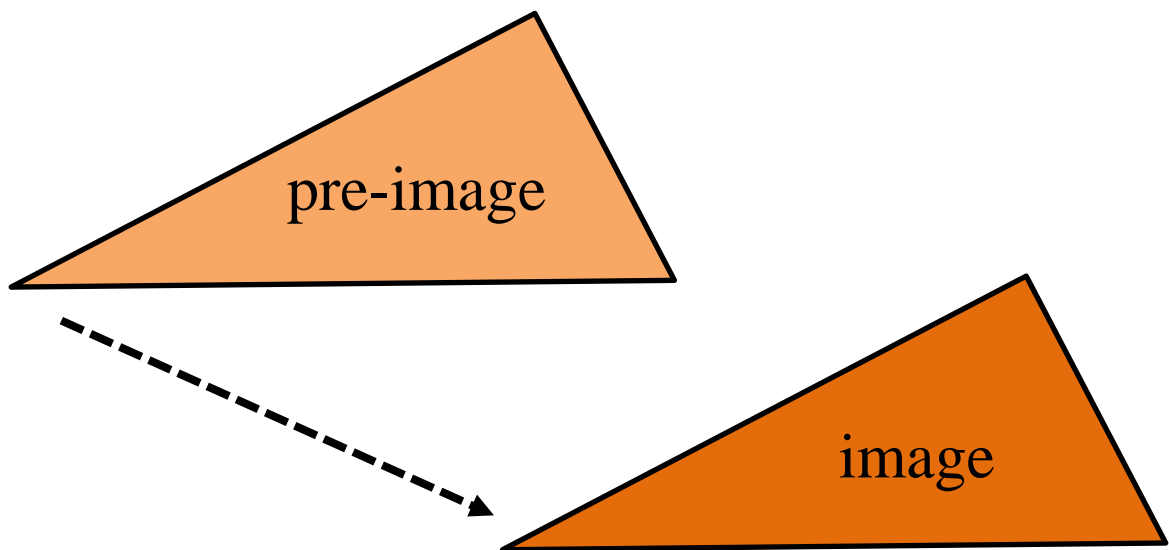
Trapezoid



- exactly one pair of parallel sides

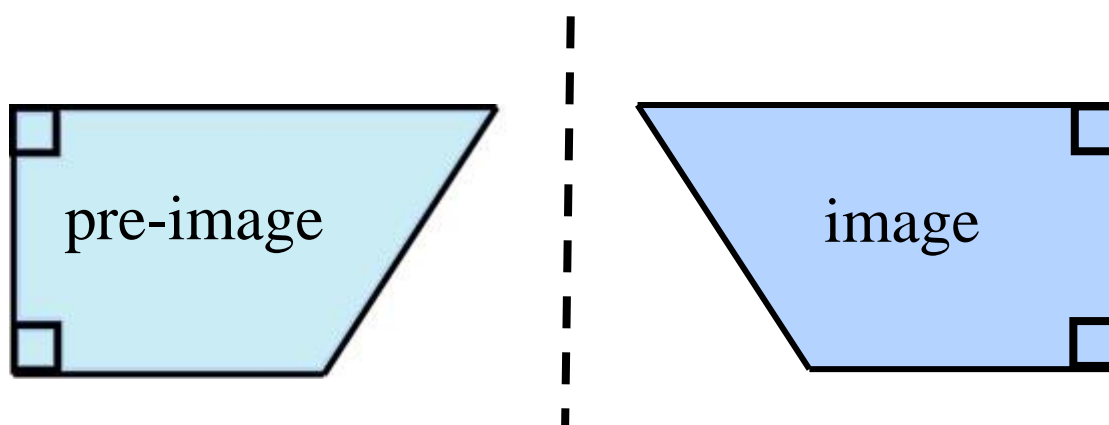
Translation

an image formed by moving every point on the preimage the same distance in the same direction



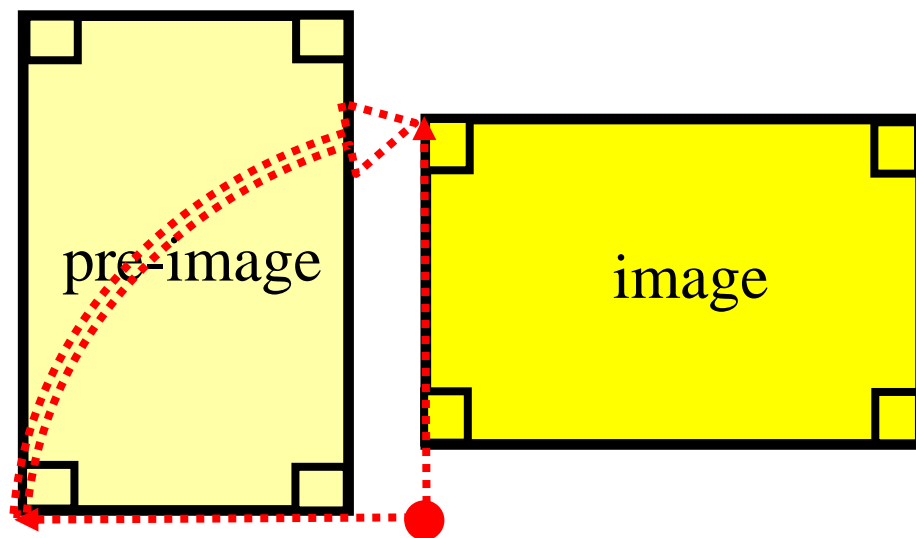
Reflection

an image formed by reflecting the preimage over a line called the line of reflection

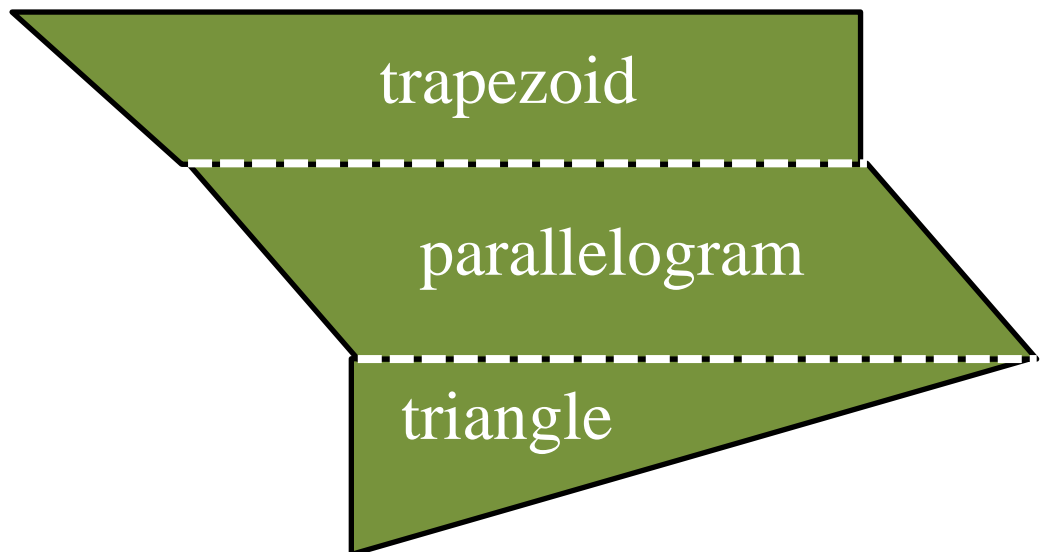
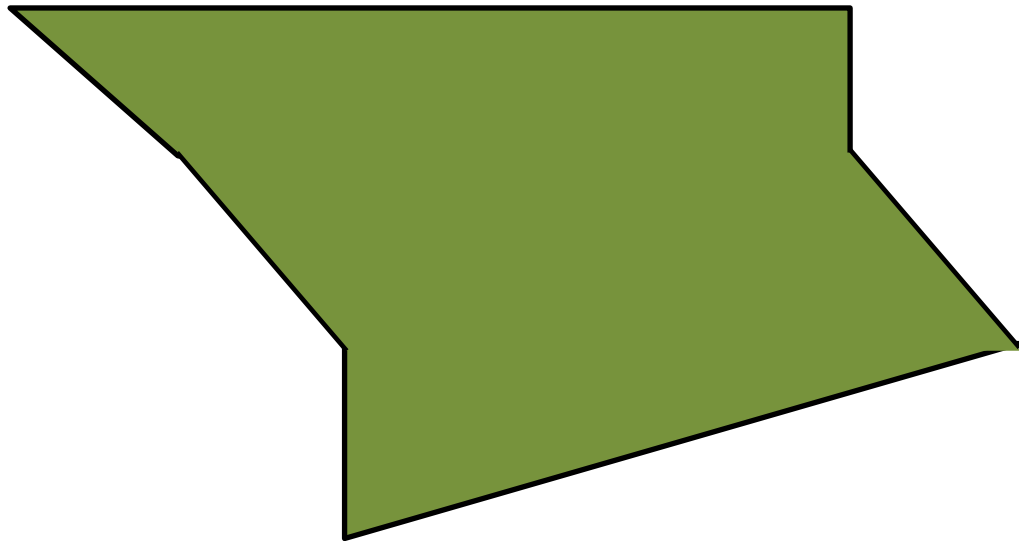


Rotation

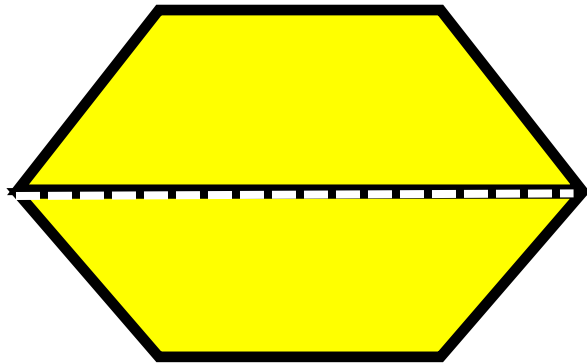
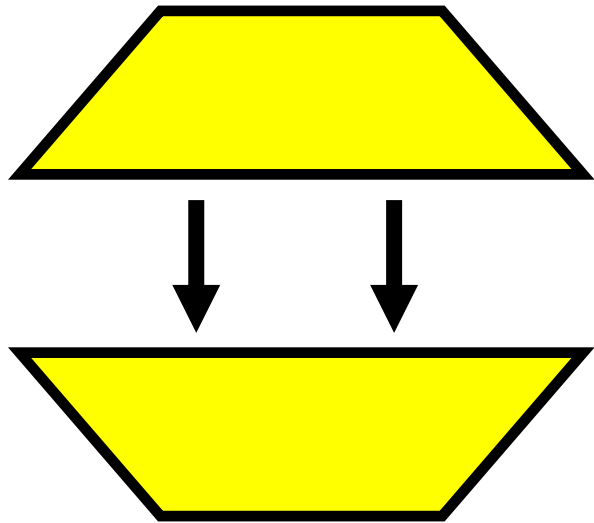
an image formed by rotating the preimage about a point called the center of rotation



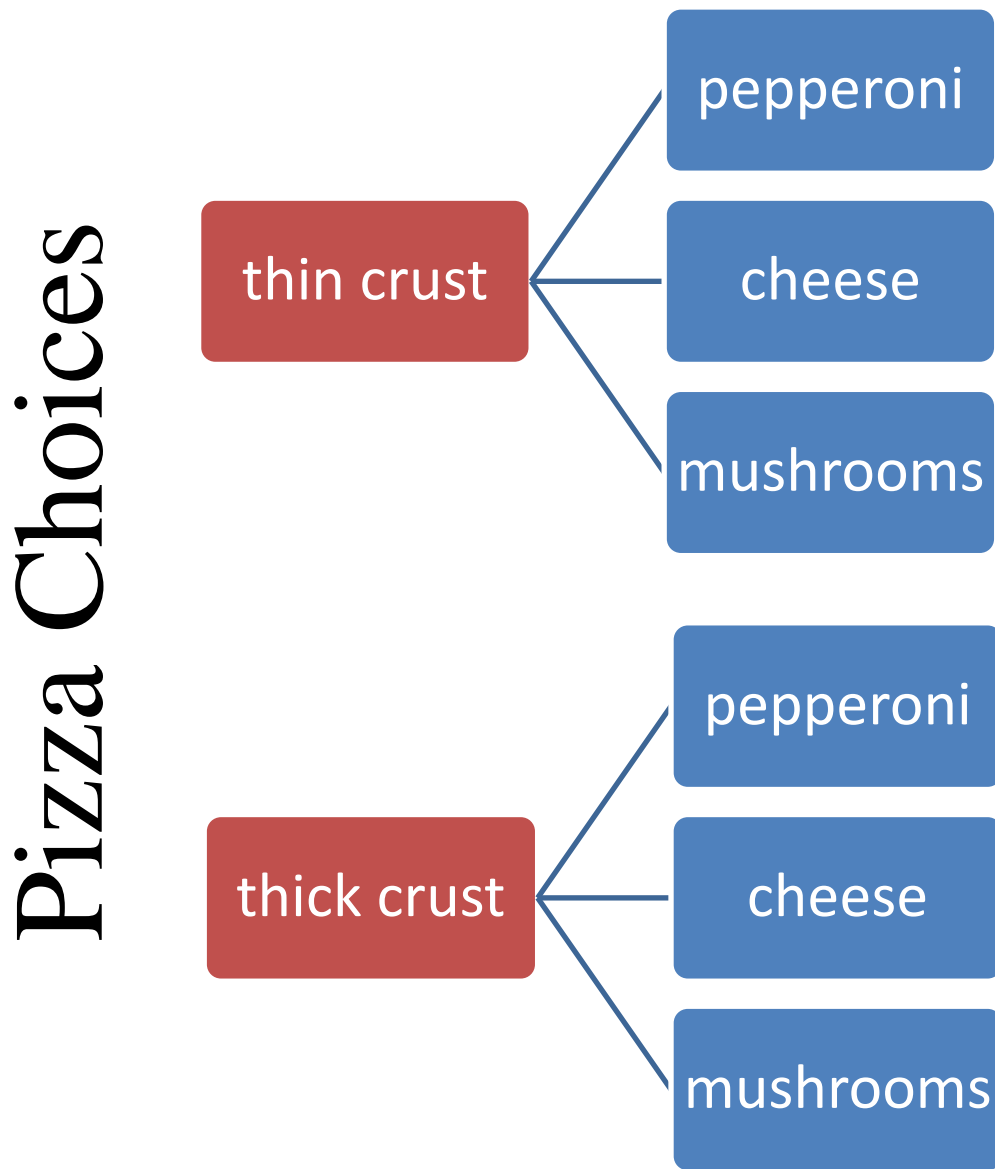
Subdivide



Combine

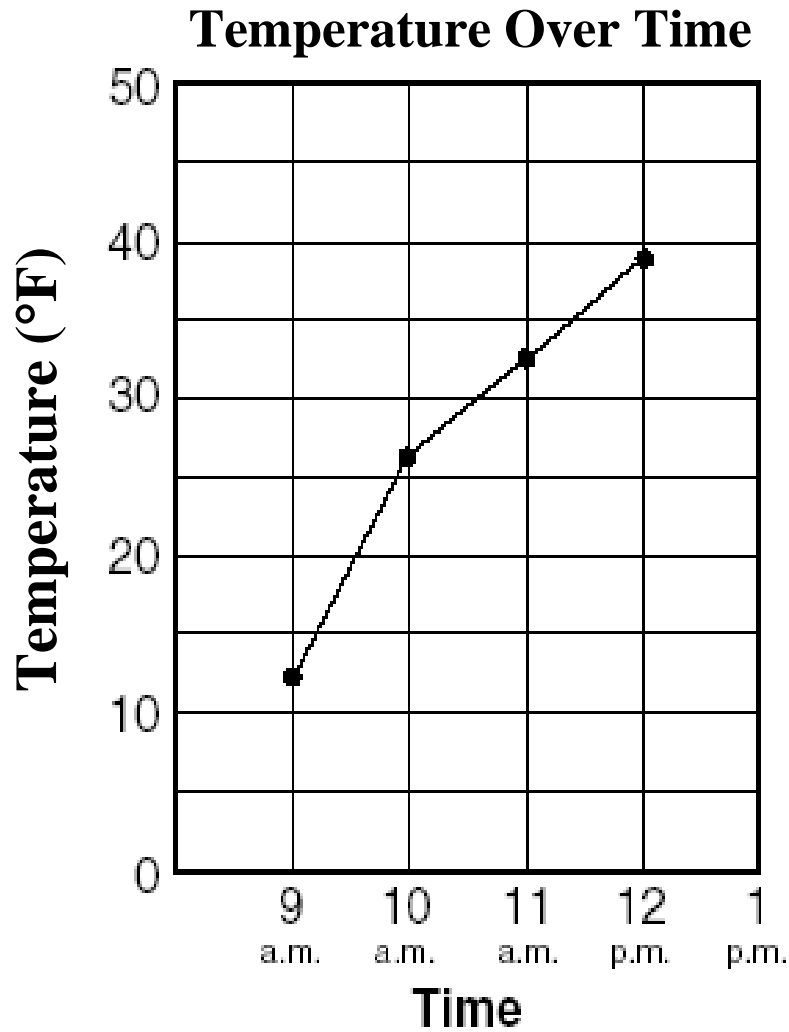


Sample Space



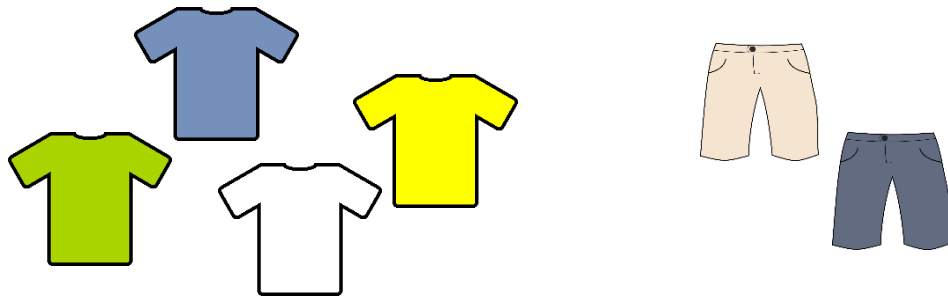
Tree Diagram

Line Graph



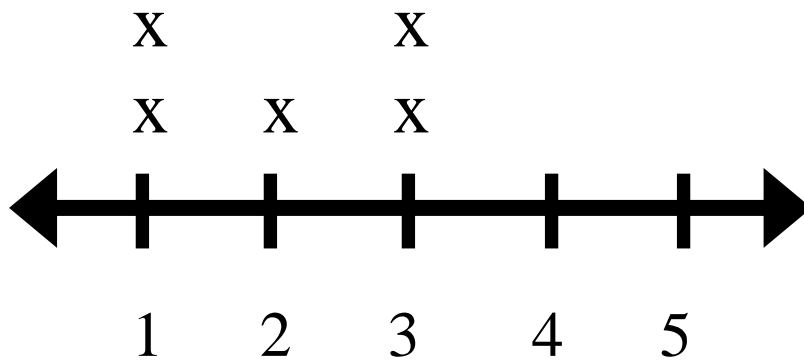
Fundamental Counting Principle

If Joe has 4 different color shirts (green, blue, white, and yellow) and 2 different color shorts (tan and black), then he has 4×2 or 8 different outfits to wear.



Line Plot

Number of Pets



x represents 1 student

Stem-and-Leaf Plot

Stem	Leaf
1	7, 8
2	2, 4, 5, 6, 9
3	3, 7, 9, 9
4	
5	0

Key: 1| 8 means 18

Mean

fair share or
average

6, 9, 8, 8, 9

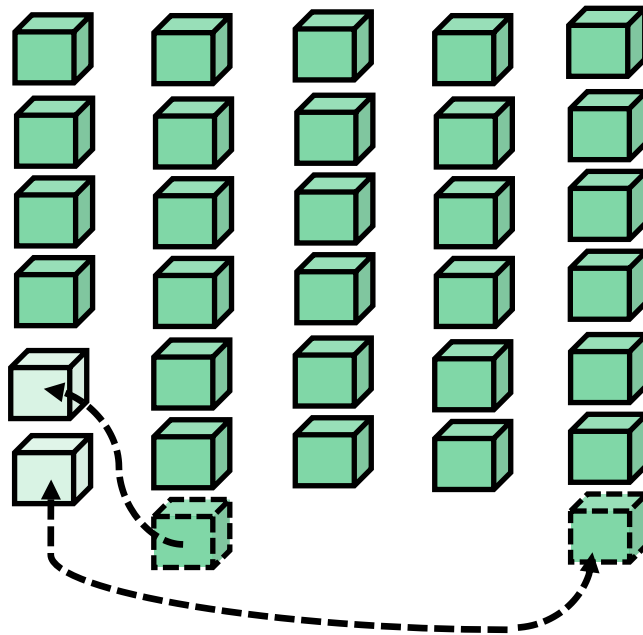
$$6 + 9 + 8 + 8 + 9 = 40$$

$$40 \div 5 = 8$$

$$\text{mean} = 8$$

Mean: Fair Share

4, 7, 6, 6, 7



The mean is 6.

Median

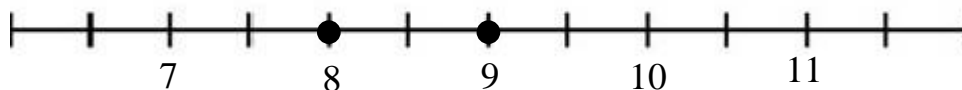
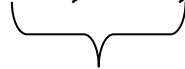
the middle value of a data set in ranked order

6, 7, 8, 9, 9



8 = median

5, 6, 8, 9, 11, 12



8.5 = median

Mode

data that occurs most frequently

6, 7, 8, 9, 9

9 = mode

6, 8, 10, 11, 15, 20

no mode

2, 2, 2, 3, 7, 9, 9, 9

2 and 9 = mode

Range

the spread of a set of data

6, 7, 8, 9, 9

6 least value in the data set

9 greatest value in the data set

$$\text{range} = 9 - 6 = 3$$

Patterns

8, 10, 13, 17, __

Rule: _____	
Input	Output
4	11
5	12
6	13
10	17

Rule: _____	
Input	Output
145	130
100	85
75	60
50	?

Rule: _____	
Input	Output
2	8
4	16
?	20
8	32

Expression

a representation of a
quantity

12.8

14×351


$45 \div 8$

Variable Expression

an expression that contains
numbers, operations, and
variables

$$4 + s$$

variable



Equation

$$3 + 5 = 10 - 2$$

$$6 - x = 4$$

$$12 \div 4 = y$$

$$8n = 56$$

Equality

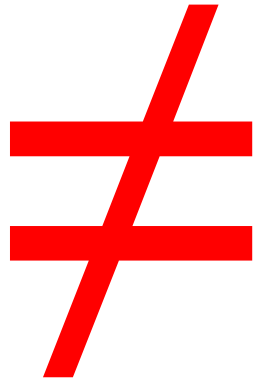


$$400 - 177 = 399 - 176$$

$$25 \times 5 = 250 \div 2$$

$$1.8 \times 5 = 18 \div 2$$

Inequality



$$5 + 6 \neq 11 - 5$$

$$9 - \frac{8}{9} \neq 2\frac{2}{3} \times 3$$

$$0.5 \times 7 \neq 3.5 + 5$$