

Mathematics Vocabulary Cards – Grade 5

Table of Contents

Number and Number Sense

[Decimal Place Value](#)
[Mixed Number](#)
[Equivalent Fractions](#)
[Prime Numbers](#)
[Composite Numbers](#)
[Even and Odd Numbers](#)

Computation and Estimation

[Fraction: Addition](#)
[Fraction: Subtraction](#)

Measurement

[Area: Square units](#)
[Perimeter: Units](#)
[Volume: Height, Width, Length](#)
[Equivalent Measurements: Kilometer, Meter, Centimeter](#)
[Equivalent Measurements: Kilogram, Grams](#)
[Equivalent Measurements: Liter, Milliliters](#)
[Millimeter: Centimeter](#)
[Chord](#)
[Diameter](#)
[Radius](#)
[Circumference](#)
[Acute Angle](#)
[Obtuse Angle](#)
[Right Angle](#)
[Straight Angle](#)

Geometry

[Acute Triangle](#)
[Right Triangle](#)
[Obtuse Triangle](#)
[Equilateral Triangle](#)
[Scalene Triangle](#)
[Isosceles Triangle](#)
[Protractor](#)

Geometry (continued)

[Rectangle: Right Angle](#)
[Square: Right Angle](#)
[Parallelogram](#)
[Rhombus](#)
[Trapezoid](#)
[Subdivide](#)
[Combine](#)

Probability and Statistics

[Sample Space](#)
[Line Graph](#)
[Stem-and-Leaf Plot](#)
[Measures of Center](#)
[Mean as Fair Share](#)
[Mean](#)
[Median](#)
[Mode](#)
[Range](#)

Patterns, Functions and Algebra

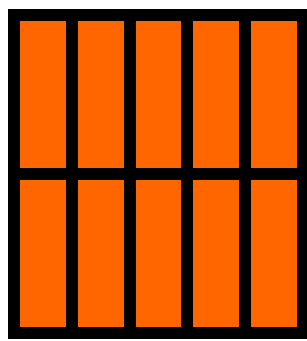
[Patterns](#)
[Open Sentence](#)
[Variable Expression](#)
[Identity Property: Addition and Multiplication](#)
[Commutative Property: Addition and Multiplication](#)
[Associative Property: Addition and Multiplication](#)
[Distributive Property](#)
[Number Line](#)
[Equation](#)
[Equality](#)

Decimal Place Value

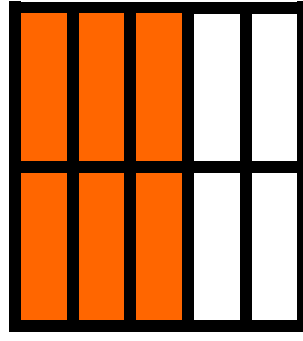
Ones		Tenths	Hundredths	Thousandths
3	.	7	2	1

↑
decimal point

Mixed Number



whole

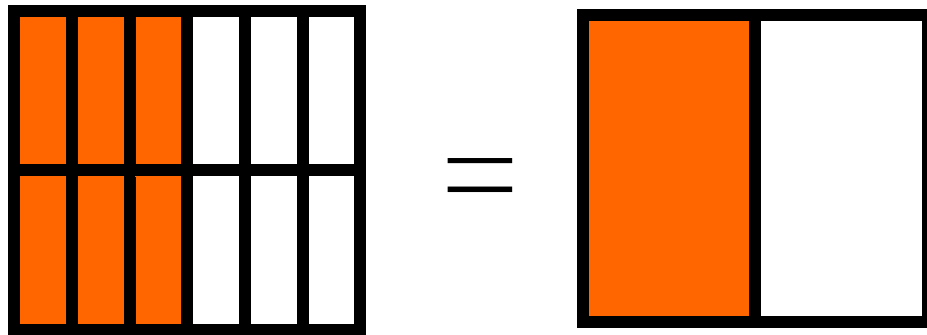


fraction

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

Equivalent

$$\frac{6}{12} = \frac{1}{2}$$



$$\frac{1}{2} = 0.5$$

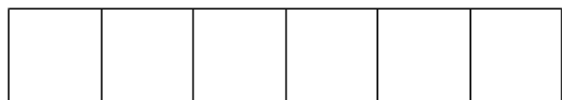
Prime Number

has exactly two
different factors,
1 and itself

2, 3, 5...97

Composite Number

has more than two
different factors



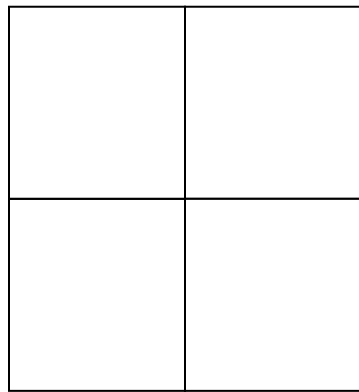
$$1 \times 6 = 6$$



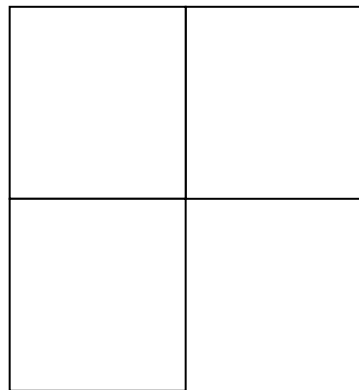
$$2 \times 3 = 6$$

factors of 6: 1, 2, 3, 6

Even and Odd Numbers

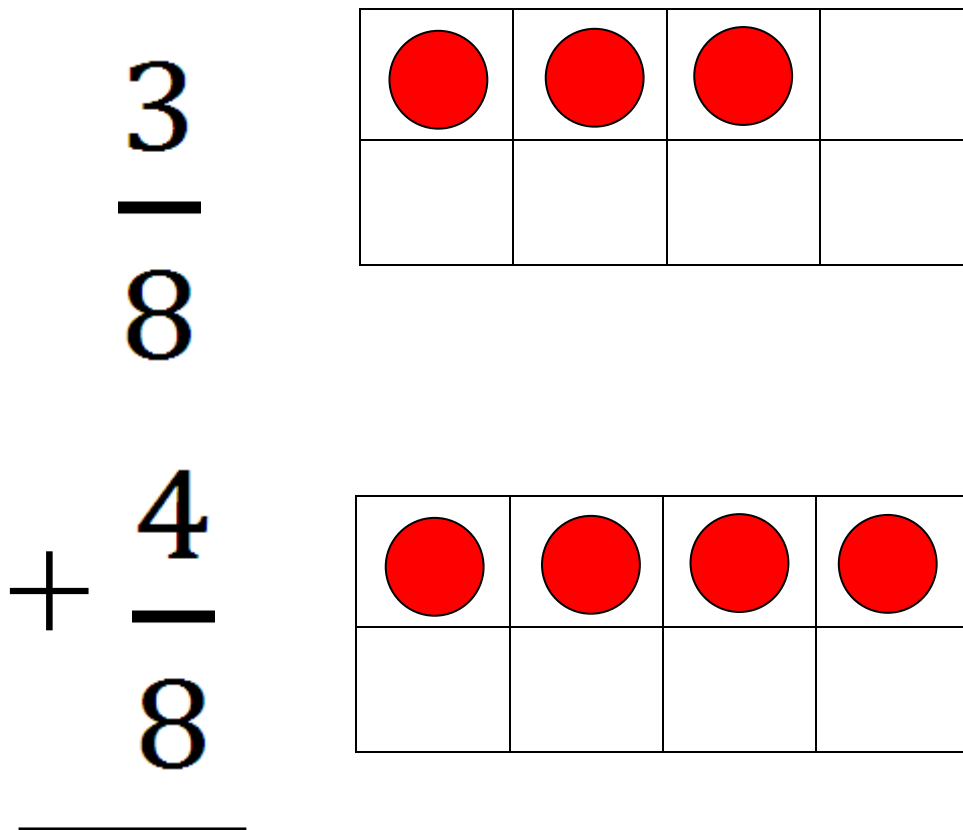


4 - even

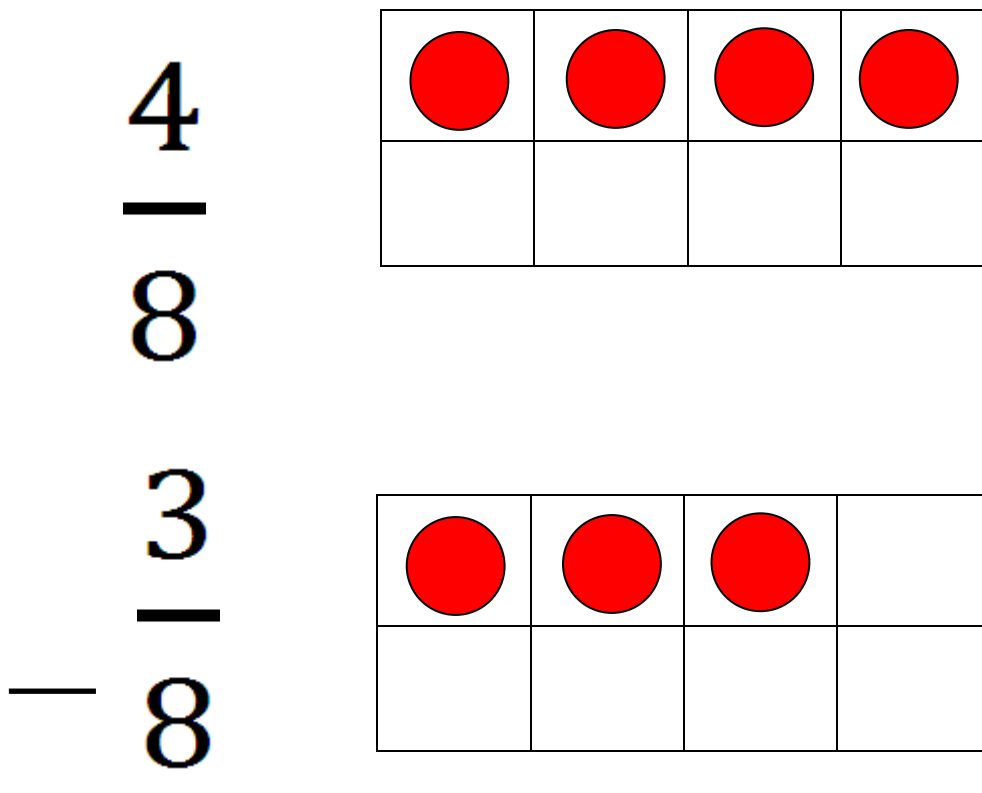


3 - odd

Fraction Addition



Fraction Subtraction

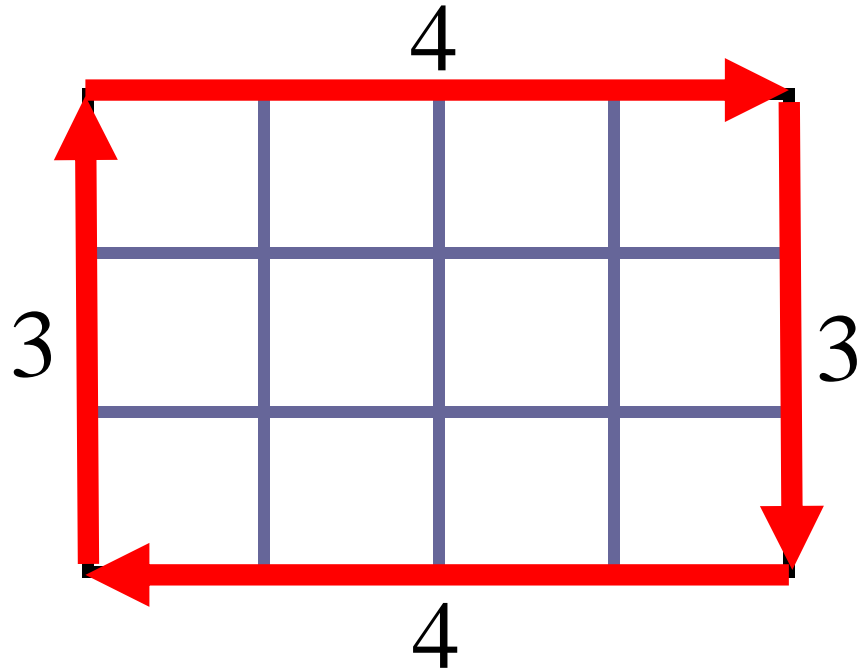


Area

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

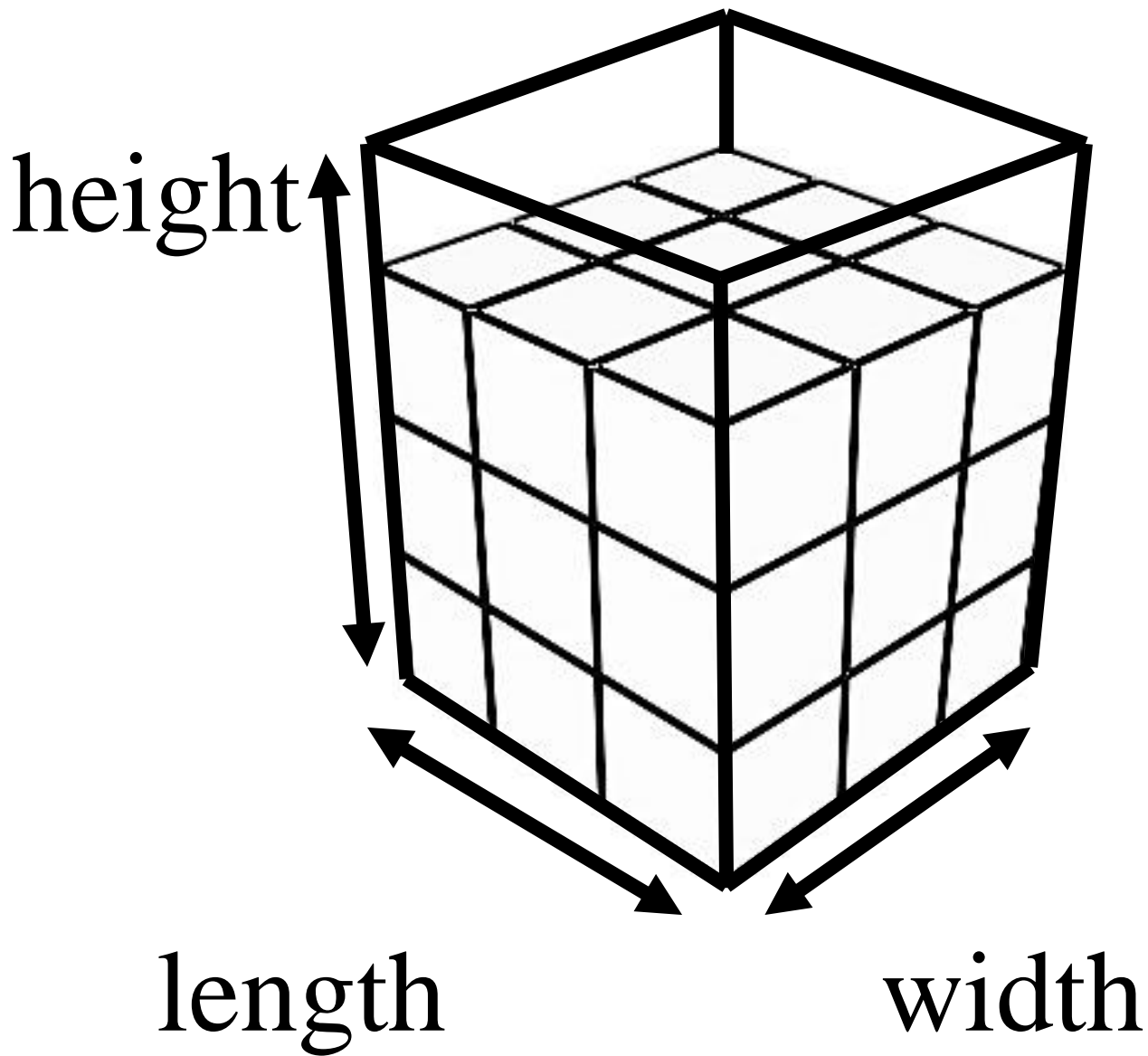
12 square units

Perimeter



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

Volume



Equivalent Measurements

1 kilometer = 1,000 meters

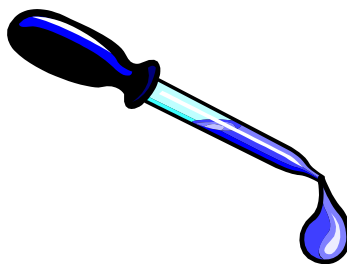
1 meter = 100 centimeters

1 centimeter = 10 millimeters

Equivalent Measurements

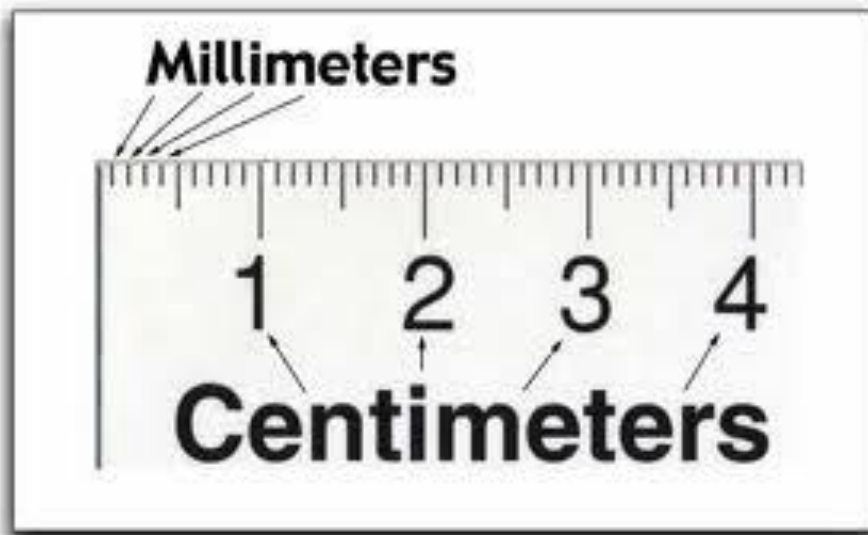
1 kilogram = 1,000 grams

Equivalent Measurements



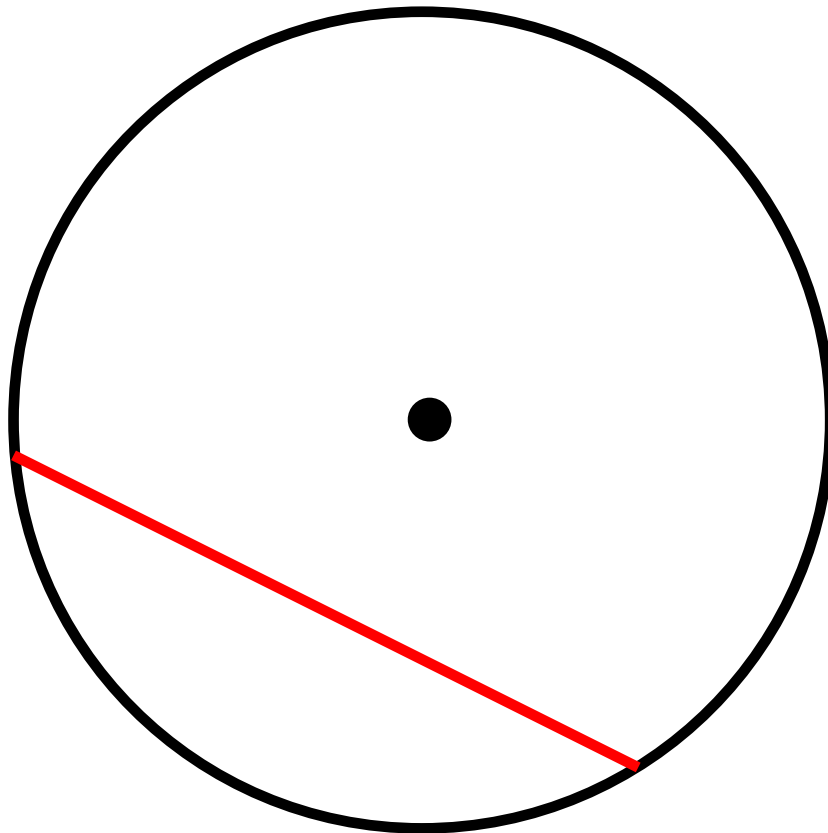
1 liter = 1,000 milliliters

Millimeter

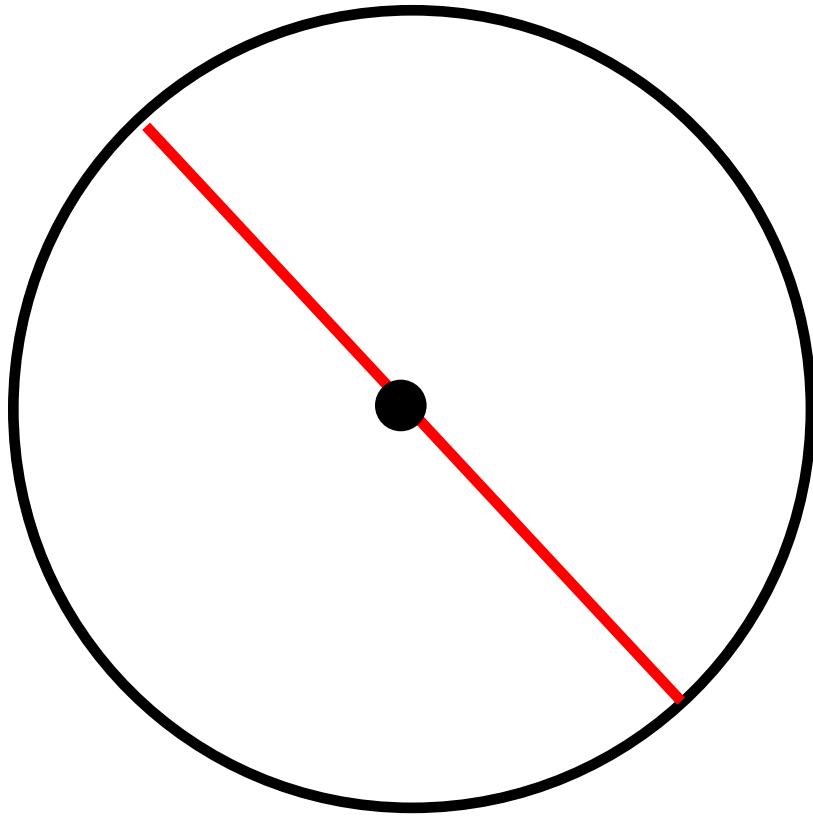


10 millimeters = 1 centimeter

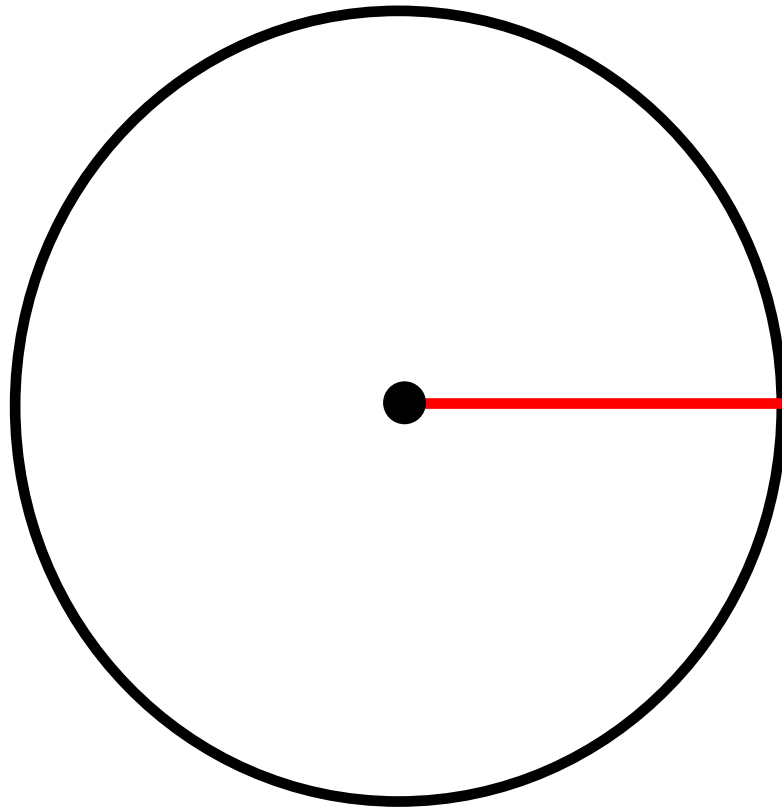
Chord



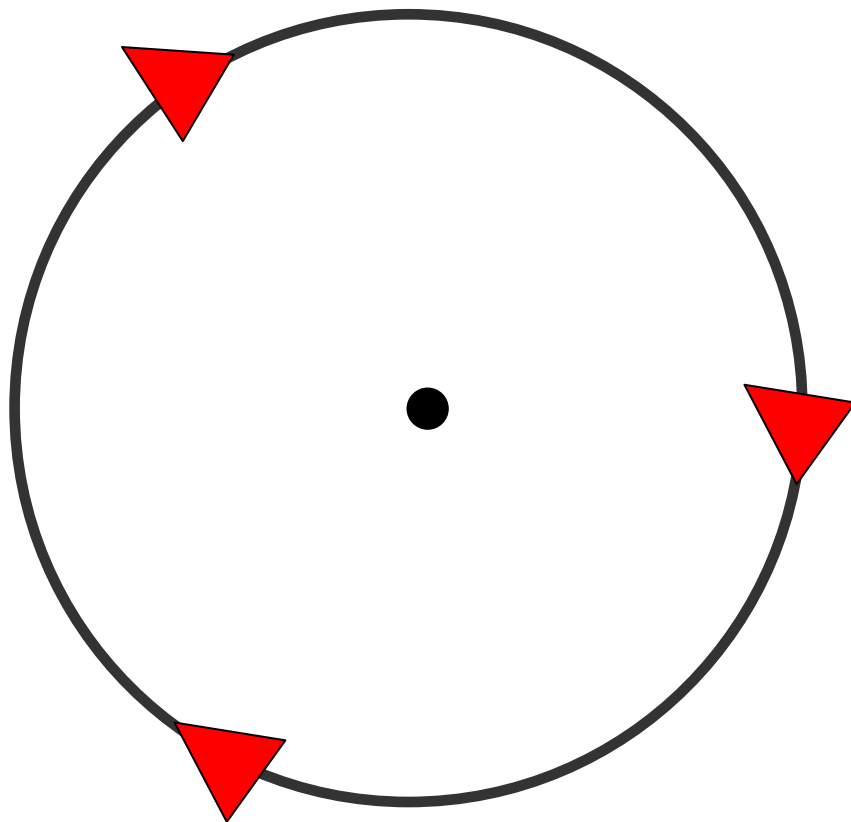
Diameter



Radius

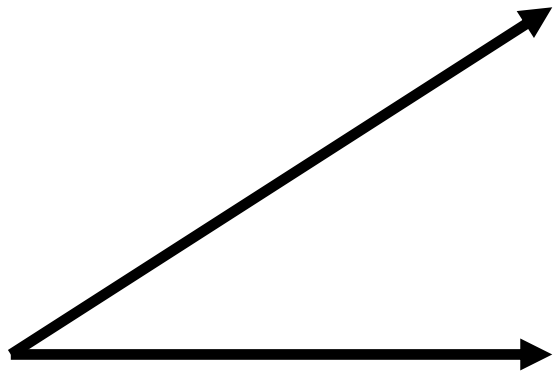


Circumference



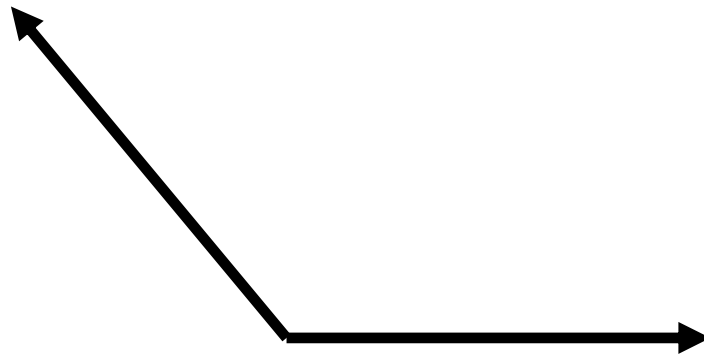
perimeter

Acute Angle



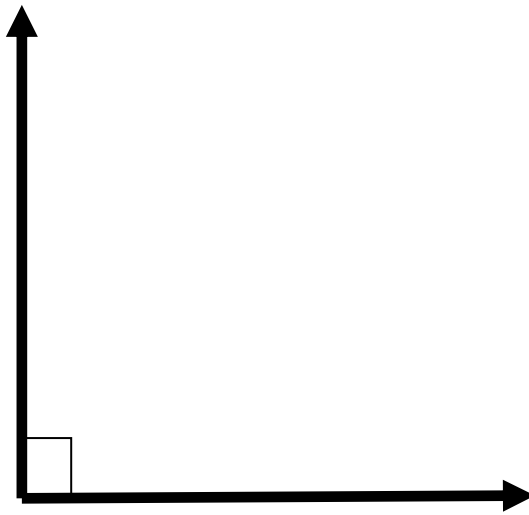
less than 90°

Obtuse Angle



greater than 90° , but
less than 180°

Right Angle



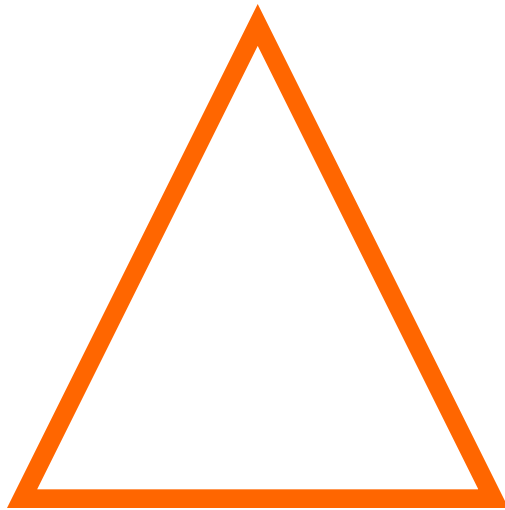
exactly 90°

Straight Angle



exactly 180°

Acute Triangle



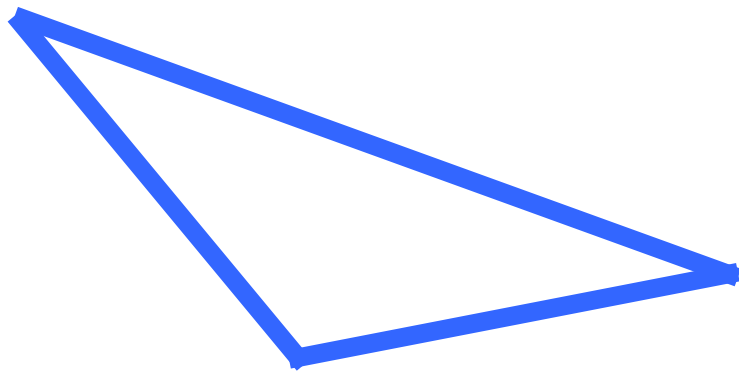
all angles less than 90°

Right Triangle



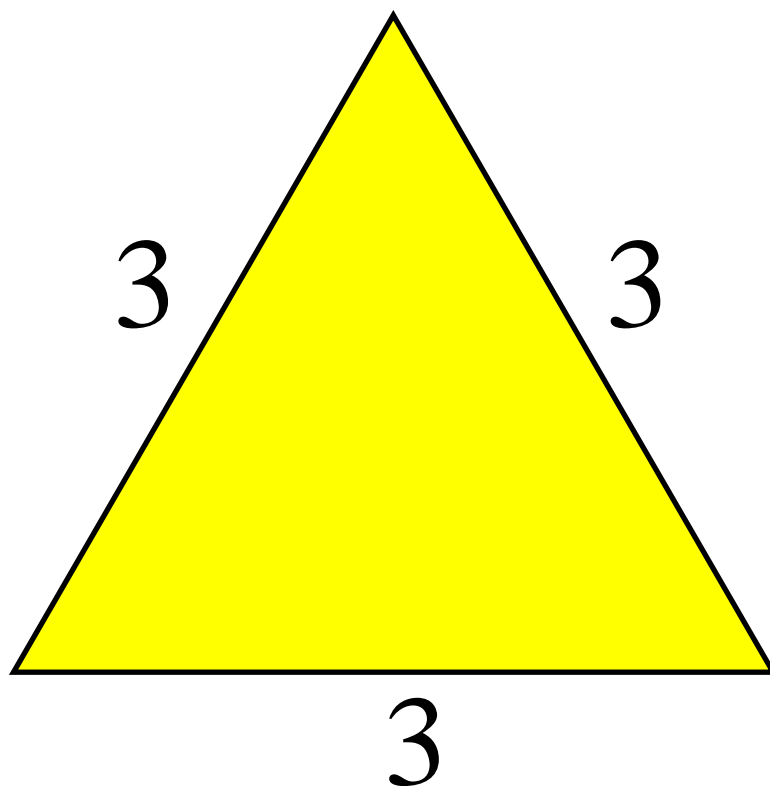
one 90° angle

Obtuse Triangle

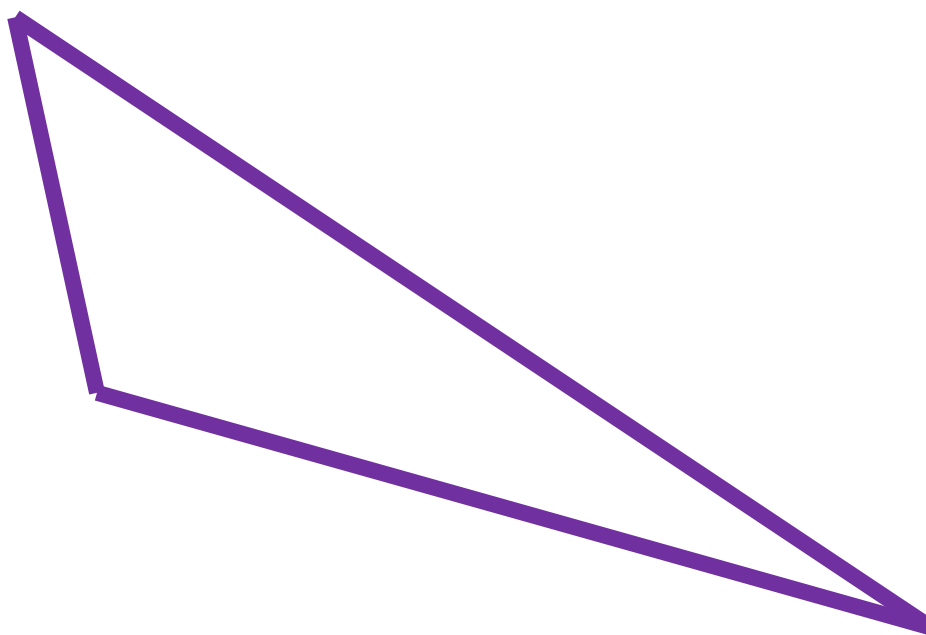


one angle greater than
 90°

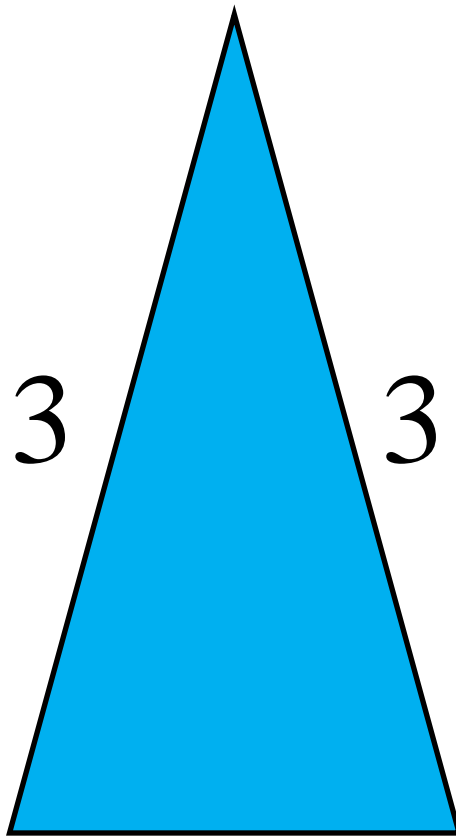
Equilateral Triangle



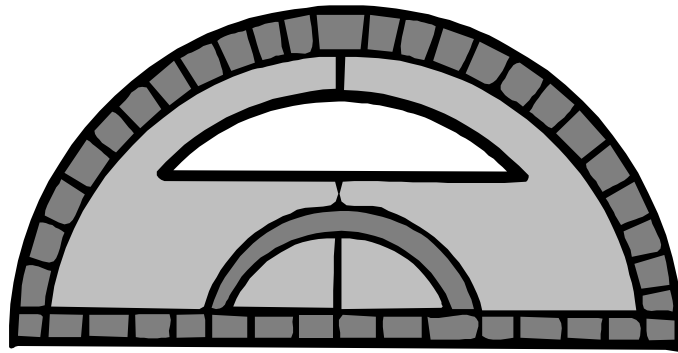
Scalene Triangle



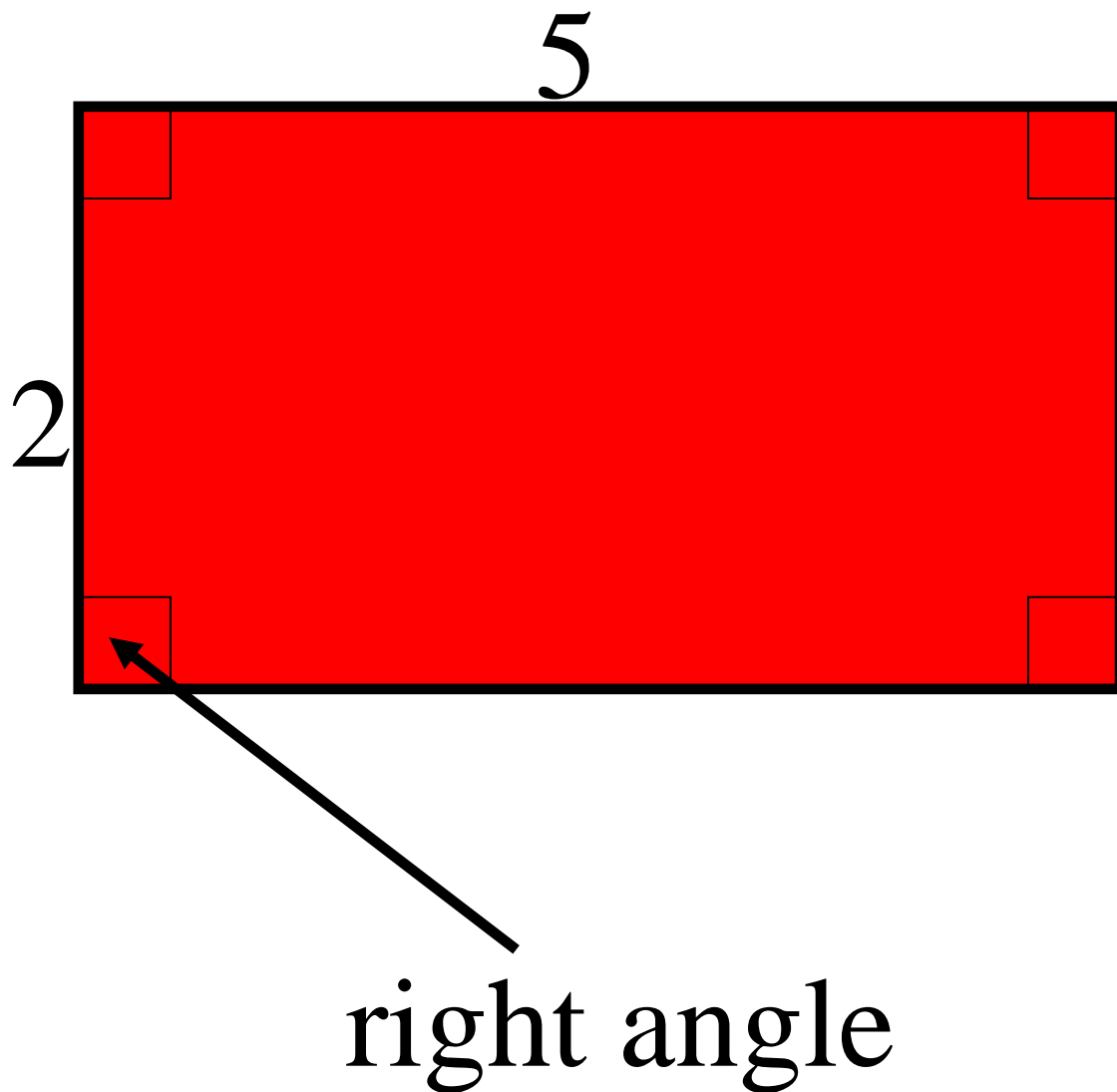
Isosceles Triangle



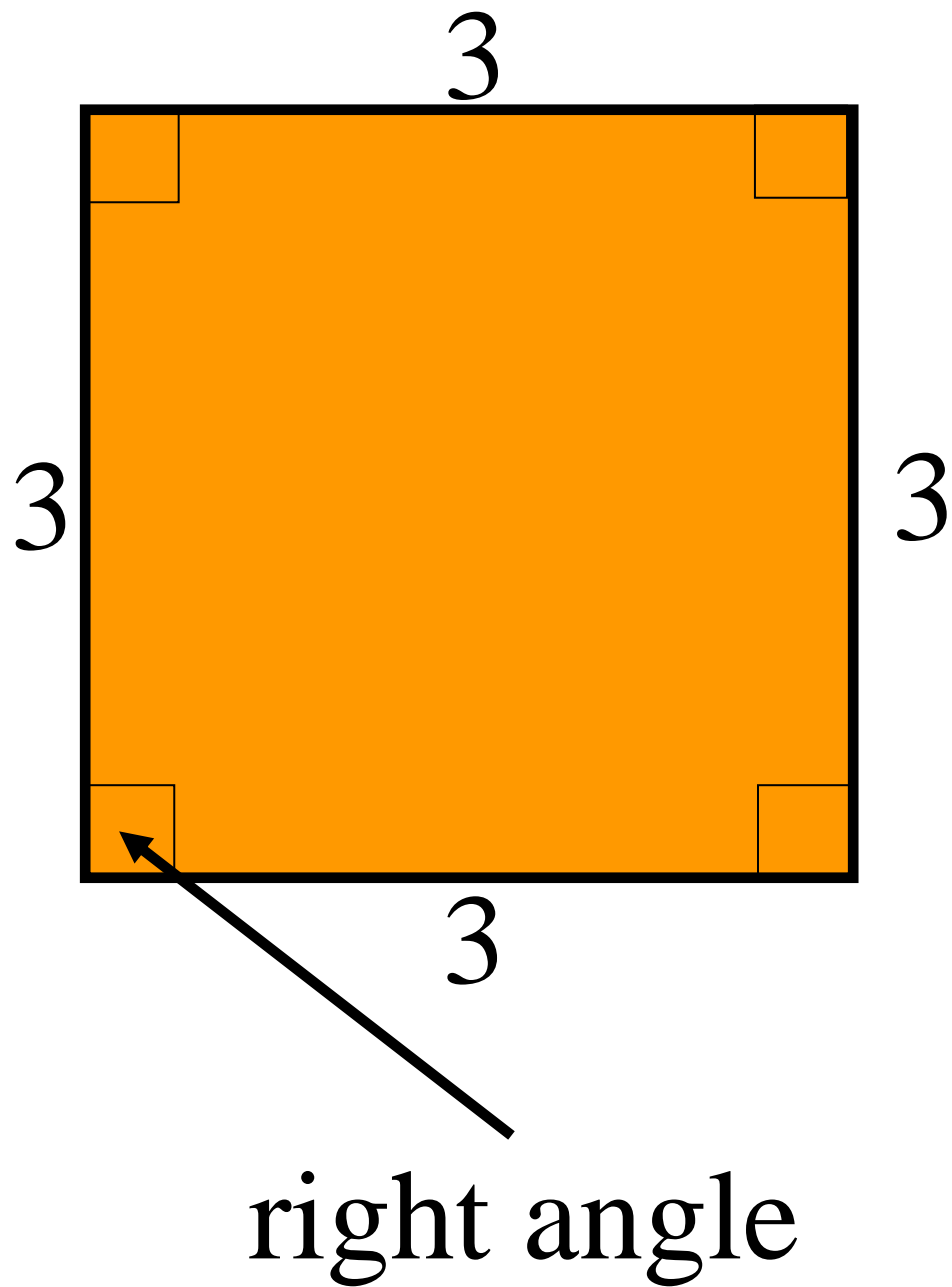
Protractor



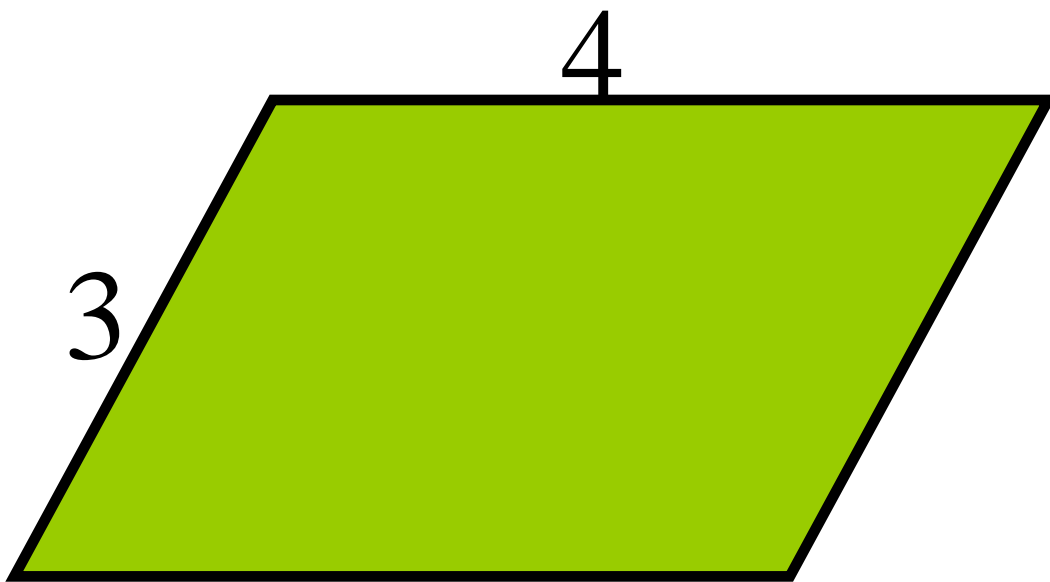
Rectangle



Square

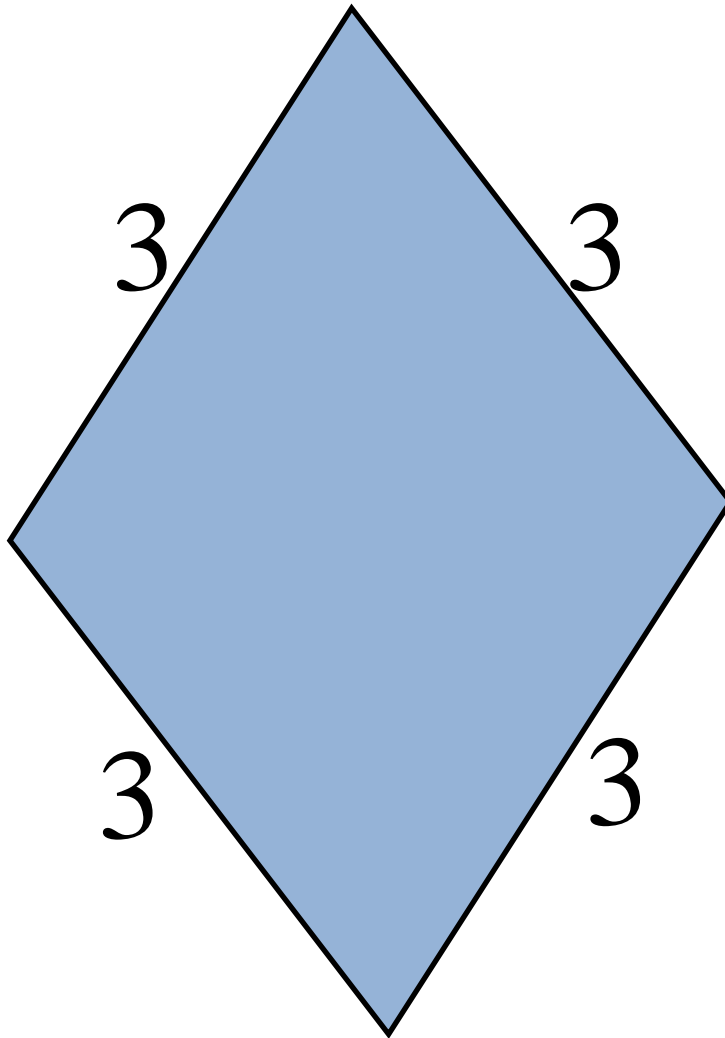


Parallelogram

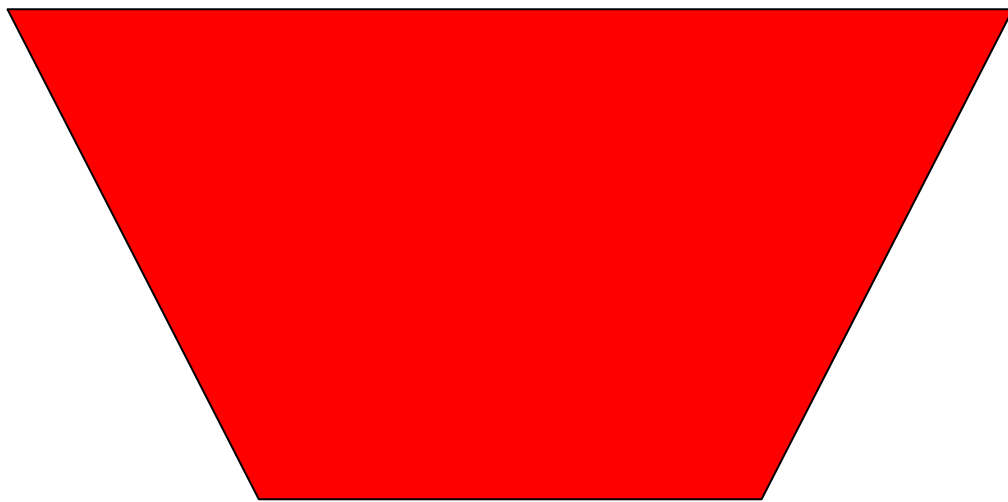


opposite sides parallel

Rhombus

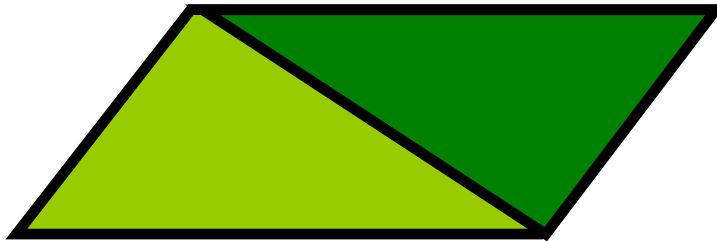


Trapezoid

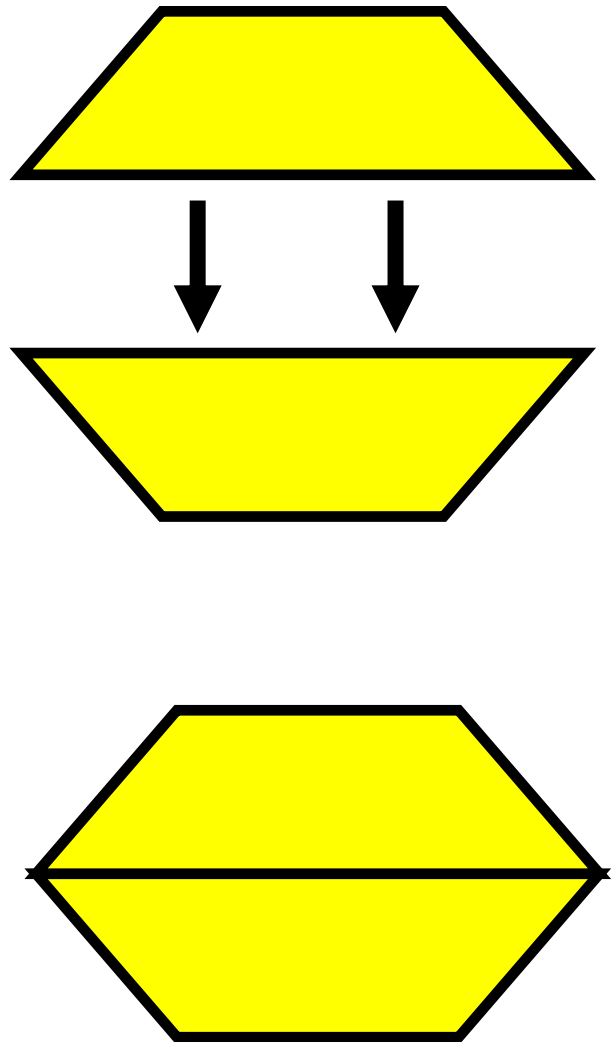


one pair of parallel
sides

Subdivide

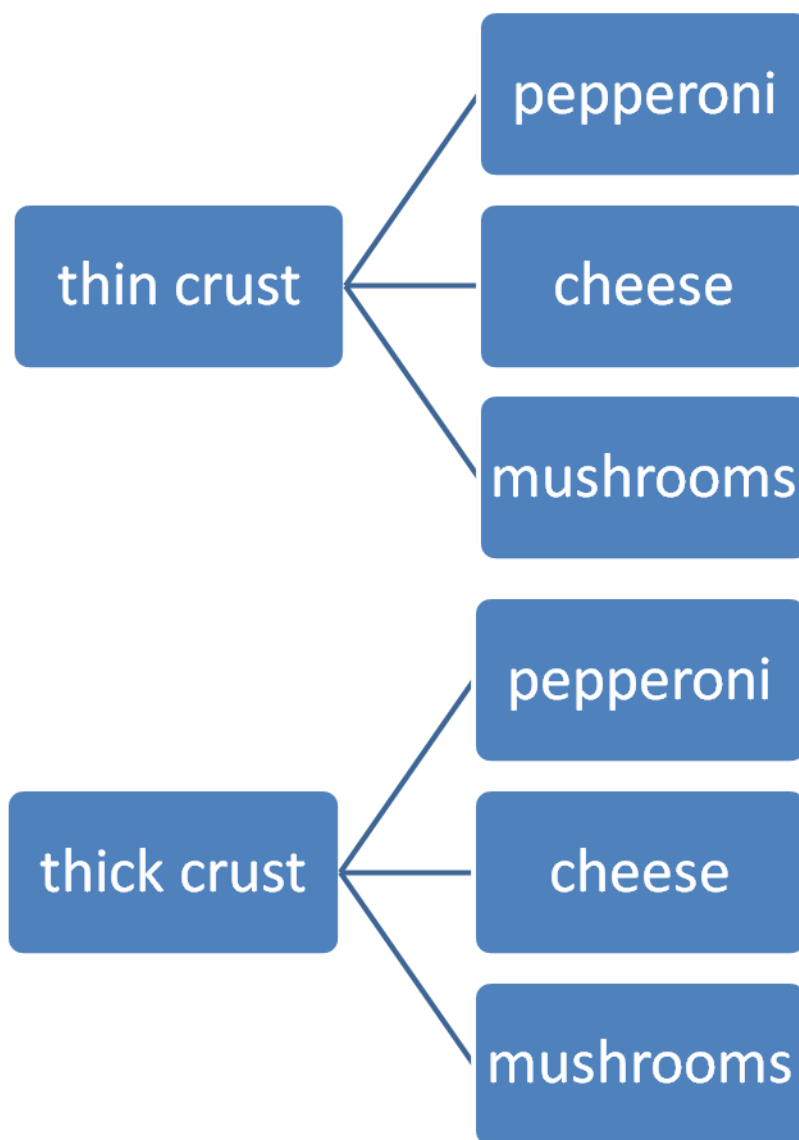


Combine



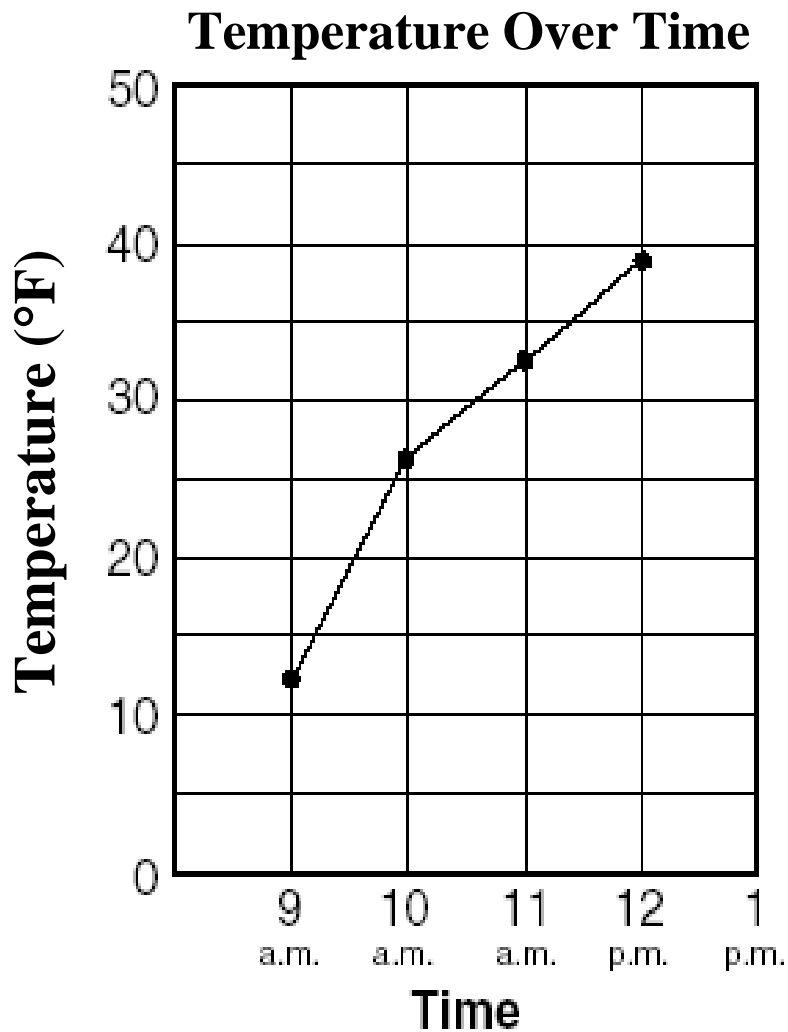
Sample Space

Pizza Choices



Tree Diagram

Line Graph



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|7 means 17

Measures of Center

Mean – average

Median – middle

Mode – occurs most frequently

Mean as Fair Share

two for you 

and two for me 

Mean

fair share

average

6, 9, 8, 8, 9

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

$$40 \div 5 = 8$$

8 = mean

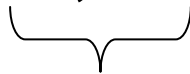
Median

6, 7, 8, 9, 9



8 = median

5, 6, 8, 9, 11, 12



8.5 = median

Mode

6, 7, 8, 9, 9
 ↑ ↑

occurs most frequently

9 = mode

Range

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

What is the relationship?

Input	Output
0	0
1	2
3	6
6	12
8	16
10	_____

The output is 2 times the input and could be written as $2x$.

Open Sentence

$$3 + b = 7$$




variable

Variable Expression

$$4 + s$$

variable



Identity Property

Addition:

$$8 + 0 = 8$$

$$0 + 12 = 12$$

Multiplication:

$$5 \times 1 = 5$$

$$1 \times 22 = 22$$

Commutative Property

Addition:

$$12 + 5 = 17$$

$$5 + 12 = 17$$

Multiplication:

$$12 \times 9 = 108$$

$$9 \times 12 = 108$$

Associative Property

Addition:

$$(2 + 5) + 4 = 2 + (5 + 4)$$

Multiplication:

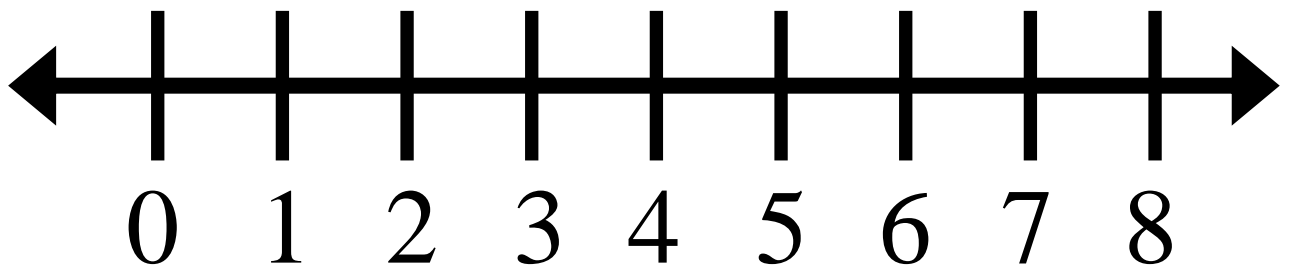
$$(3 \times 2) \times 4 = 3 \times (2 \times 4)$$

Distributive Property

$$3(4 + 5) = 3 \times 4 + 3 \times 5$$

$$(3 \times 4) + (3 \times 5) = 3(4 + 5)$$

Number Line



Equation

$$3 + 5 = 10 - 2$$

$$4 = 6 - 2$$

$$12 \div 4 = 3$$

$$56 = 8n$$

Equality



$$13 + 25 = 30 + 8$$