VAAP Version

VESOL Vocabulary Word Wall Cards

VESOL 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 of students with severe cognitive deficiency's as well as a reference for the students.

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Computation and Estimation

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Number and Number Sense

VAAP Version

Number

2

two

numeral

VAAP Version

Number

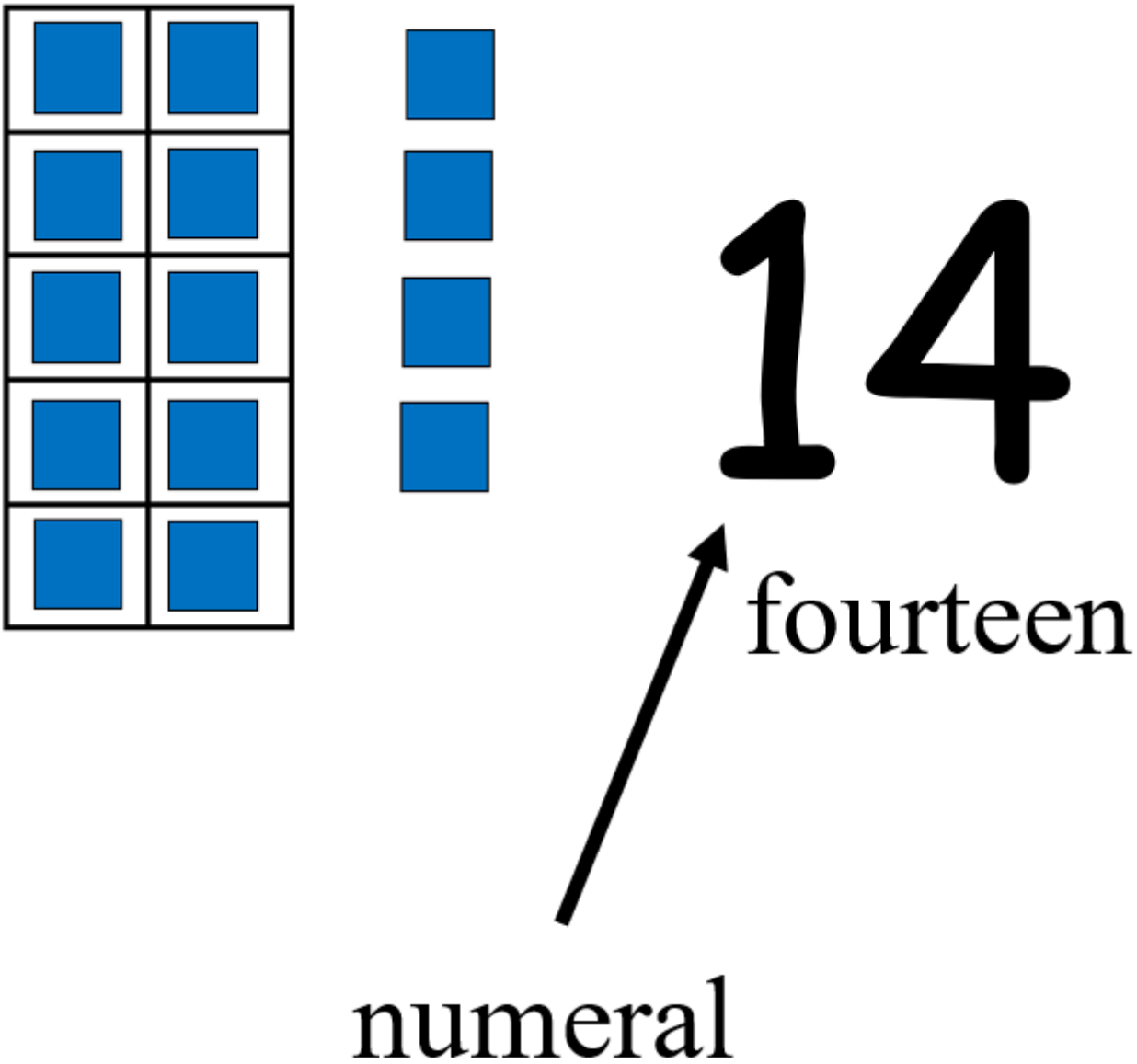
9

nine

numeral

VAAP Version

Number



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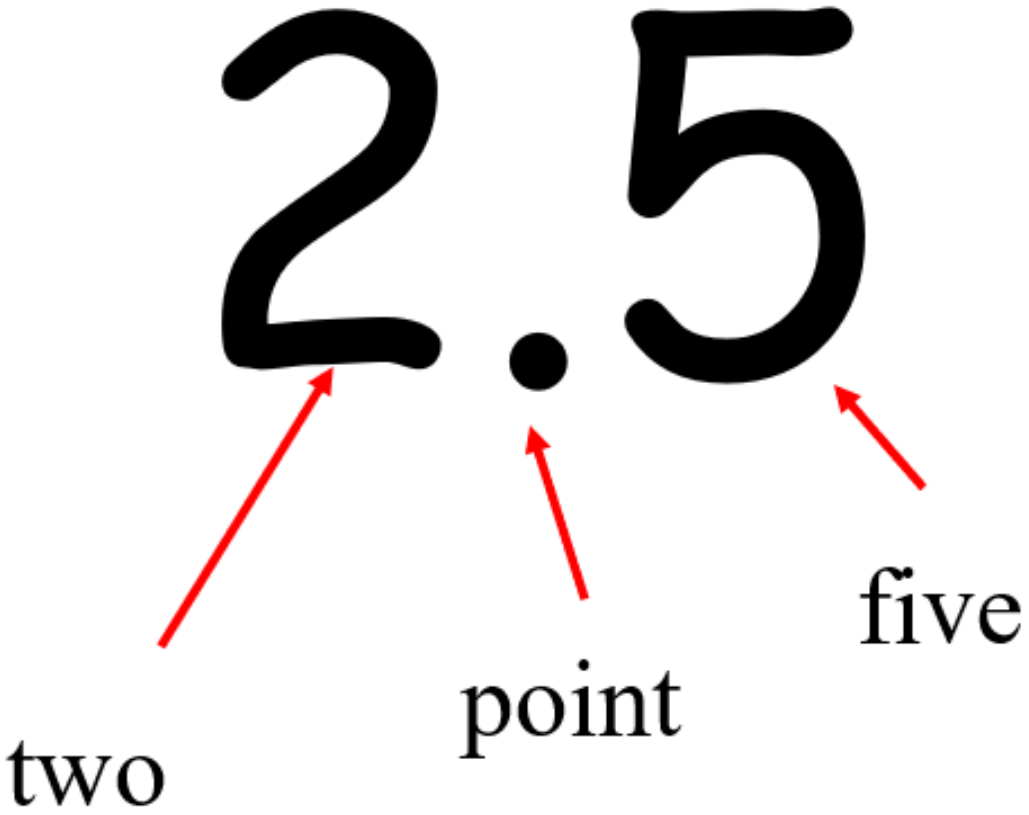
Numeral

two point five

two and five tenths



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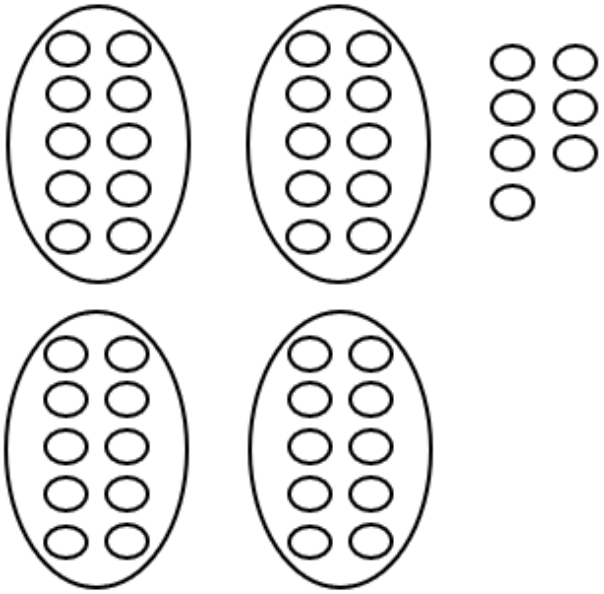
Place Value

Tens Ones

4 7



40 and 7

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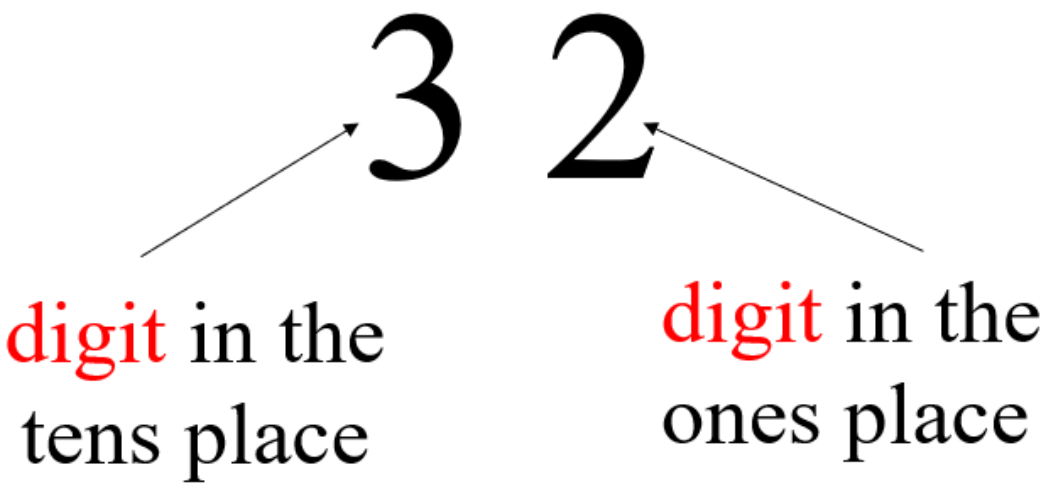
Digit

a numeral from 0 to 9

part of a number

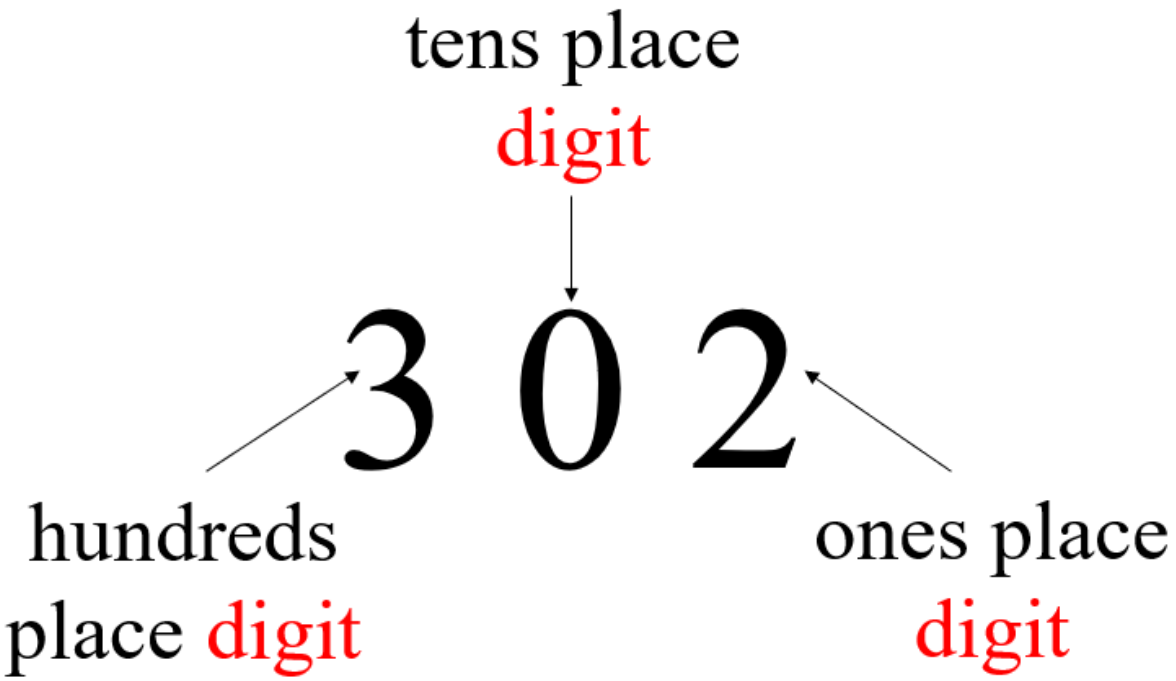


two-digit number

VAAP Version

Digit

a numeral from 0 to 9,
part of a number



three-digit number

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Counting by Ones

0 1 2 3 4 5 6

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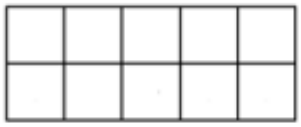
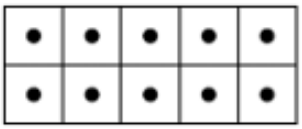
Counting by Tens



0



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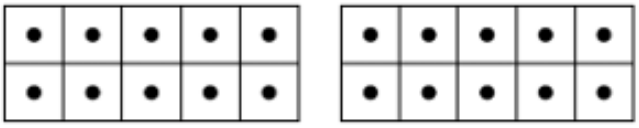

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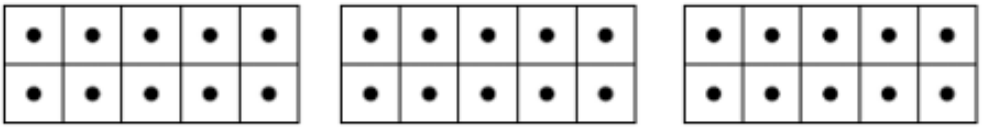

30

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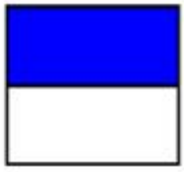
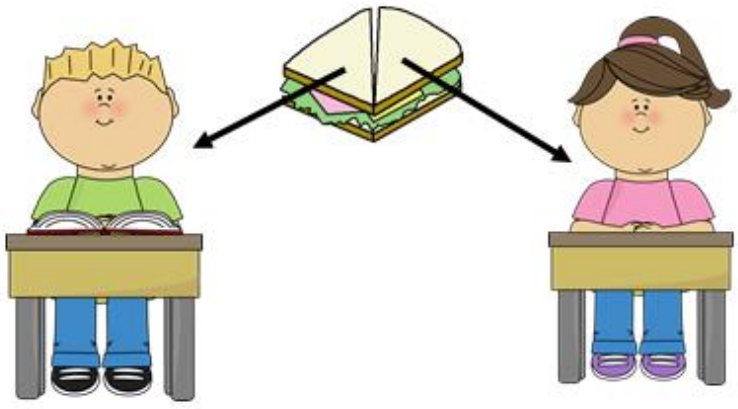
Fraction:

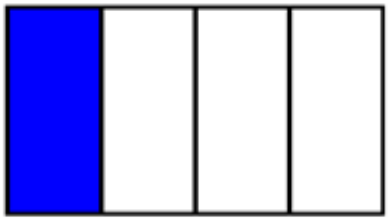
Half and Fourth

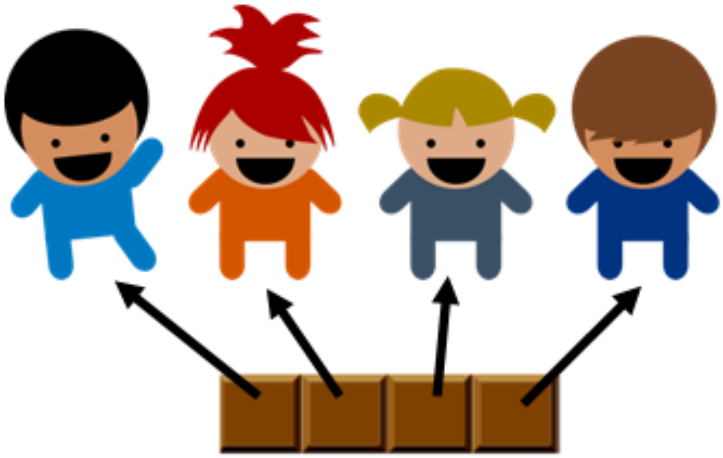
one-half





one-fourth



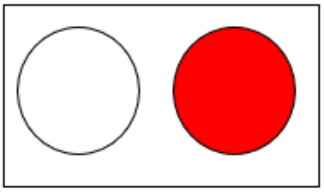


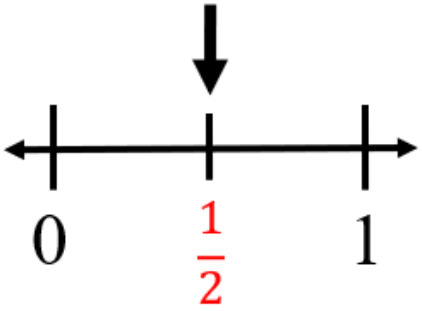
VAAP Version

Fraction:

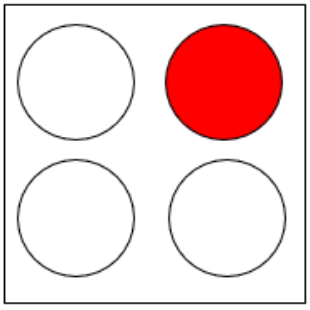
Half and Fourth

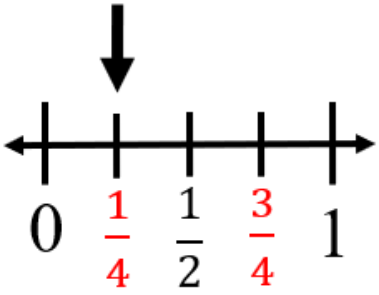
$\frac{1}{2}$





$\frac{1}{4}$





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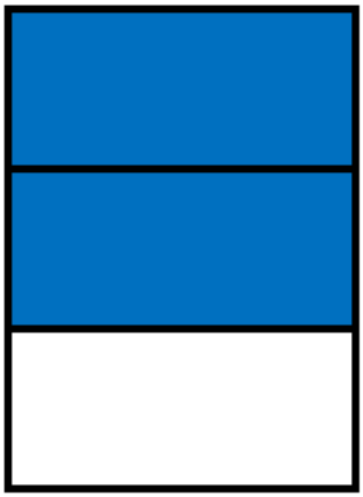
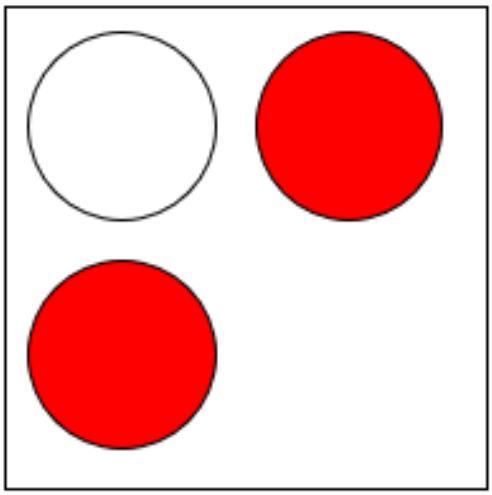
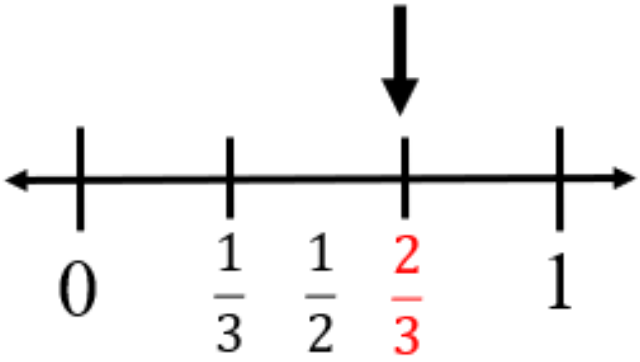
Fraction:

Models for two-thirds

$\frac{2}{3}$







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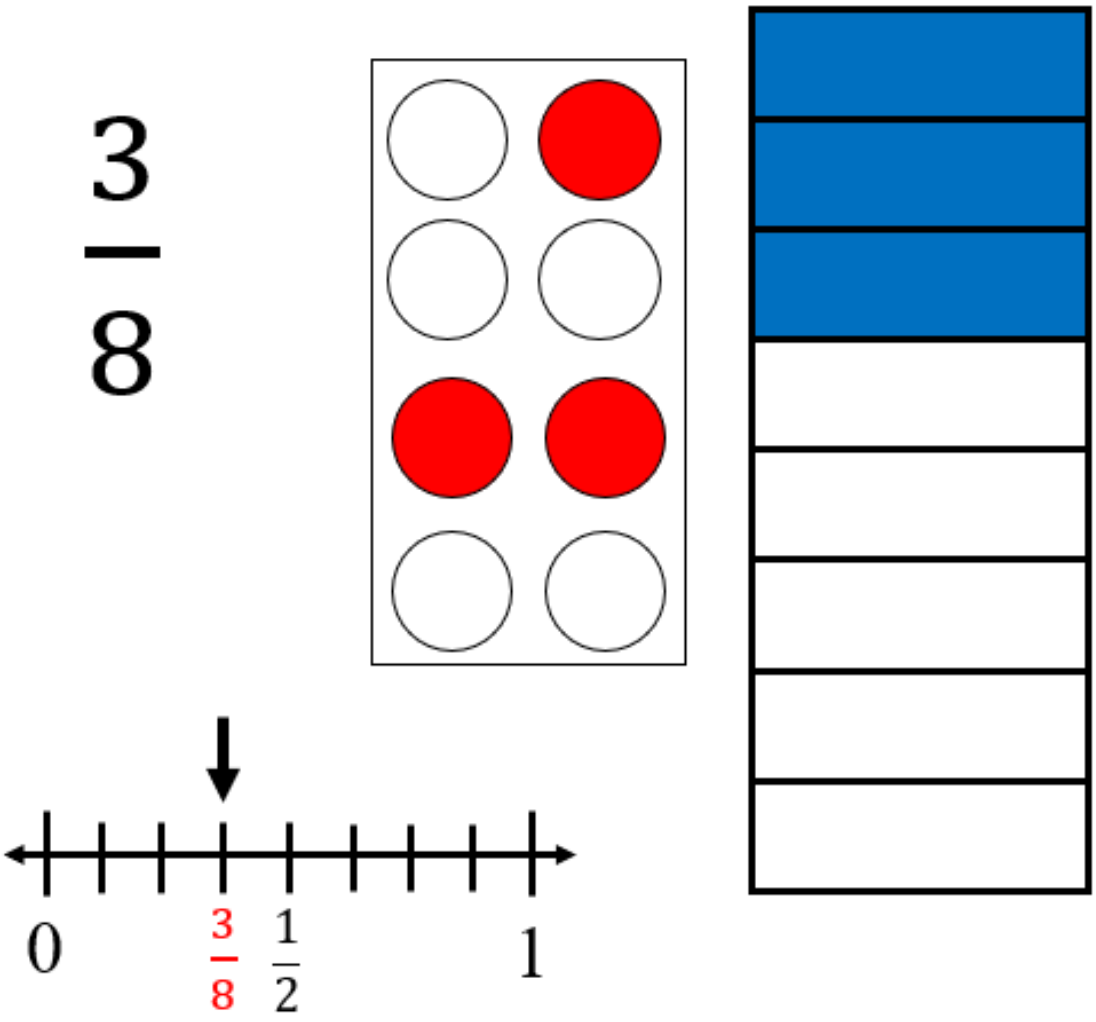
Fraction:

Models for three-eighth

$\frac{3}{8}$



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Numerator/ Denominator

numerator
(number of equal parts being considered)

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

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.

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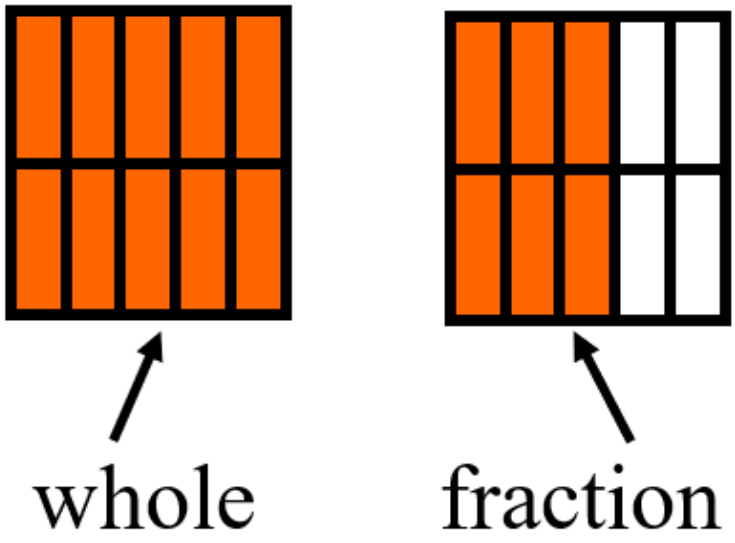
Mixed Number



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

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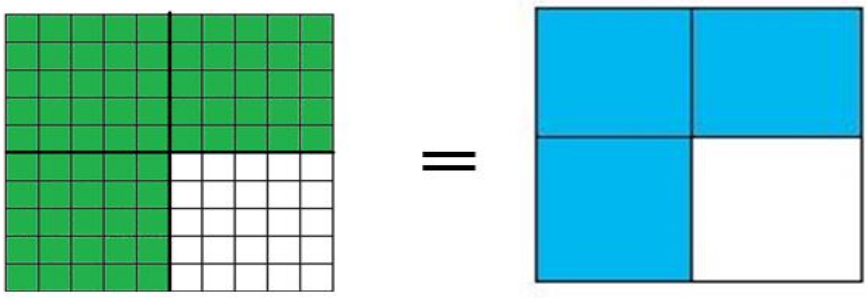
Equivalent

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



$$0.75 = \frac{3}{4}$$

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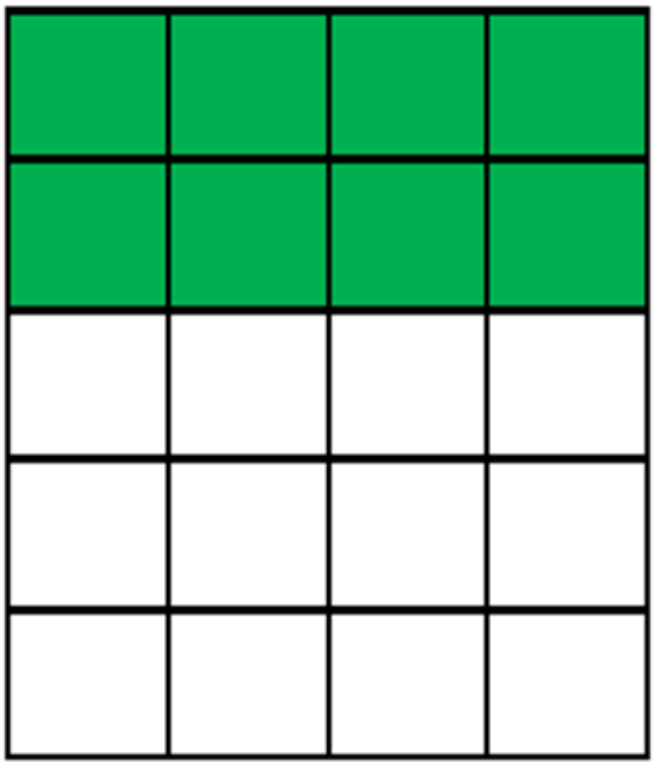
Equivalent Relationships



Fraction: $\frac{8}{20} = \frac{2}{5}$

Decimal: 0.4

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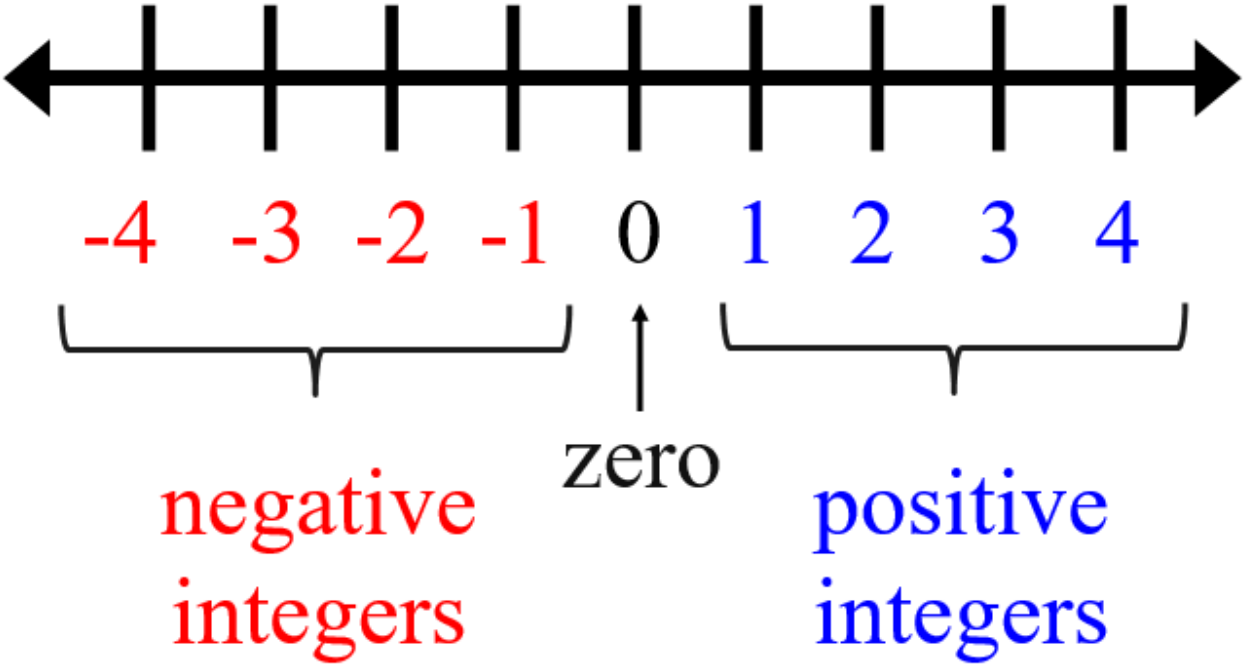
Integers

whole numbers and their opposites



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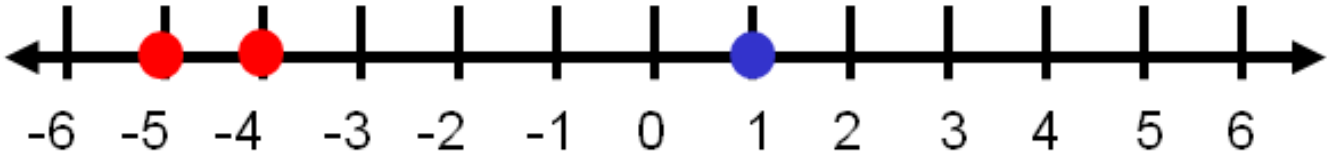
Comparing Integers



$-5 < 1$ or $1 > -5$

$-5 < -4$ or $-4 > -5$

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Perfect Squares

$$0^2 = 0 \cdot 0 = 0$$

$$1^2 = 1 \cdot 1 = 1$$

$$2^2 = 2 \cdot 2 = 4$$

$$3^2 = 3 \cdot 3 = 9$$

$$4^2 = 4 \cdot 4 = 16$$

$$5^2 = 5 \cdot 5 = 25$$

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Perfect Cubes

$$0^3 = 0 \cdot 0 \cdot 0 = 0$$

$$1^3 = 1 \cdot 1 \cdot 1 = 1$$

$$2^3 = 2 \cdot 2 \cdot 2 = 8$$

$$3^3 = 3 \cdot 3 \cdot 3 = 27$$

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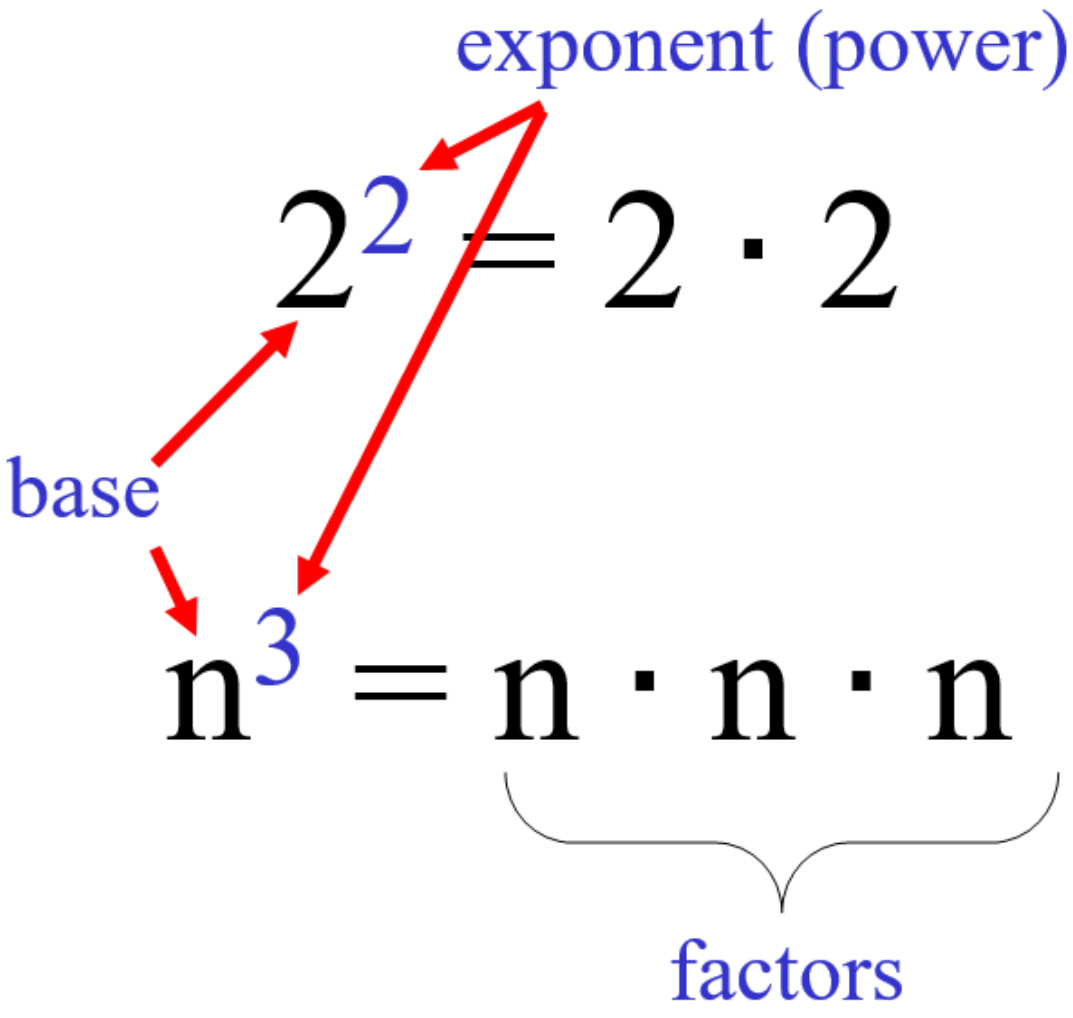
Exponential Form



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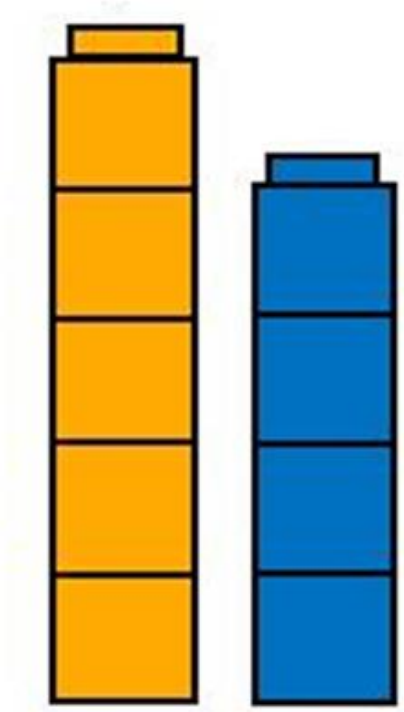
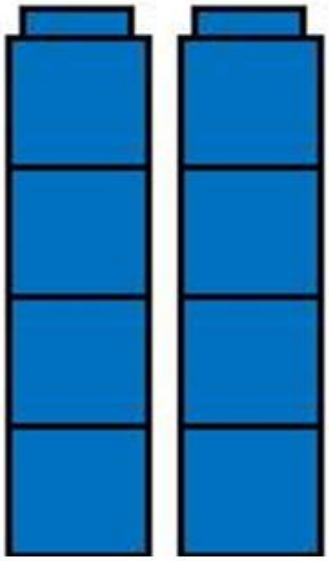
Even and Odd Numbers



9 is odd



8 is even

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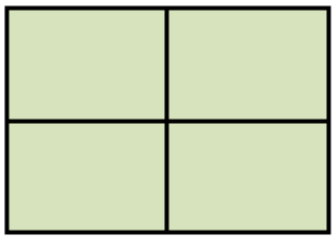
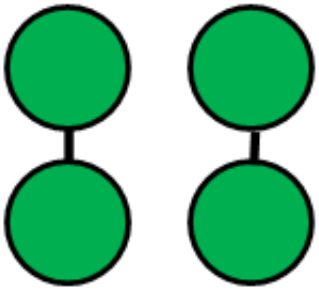
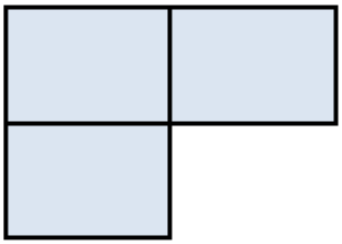
Even and Odd Numbers

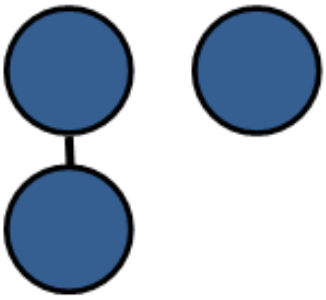


4 – even





3 - odd



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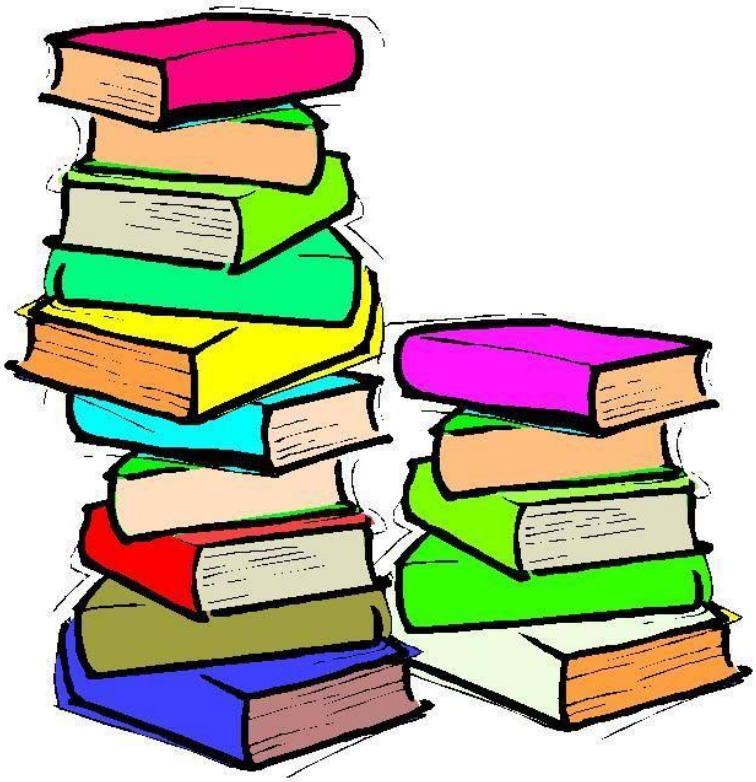
Compare



Ryan’s books Joe’s books

How many more books does Ryan have than Joe?

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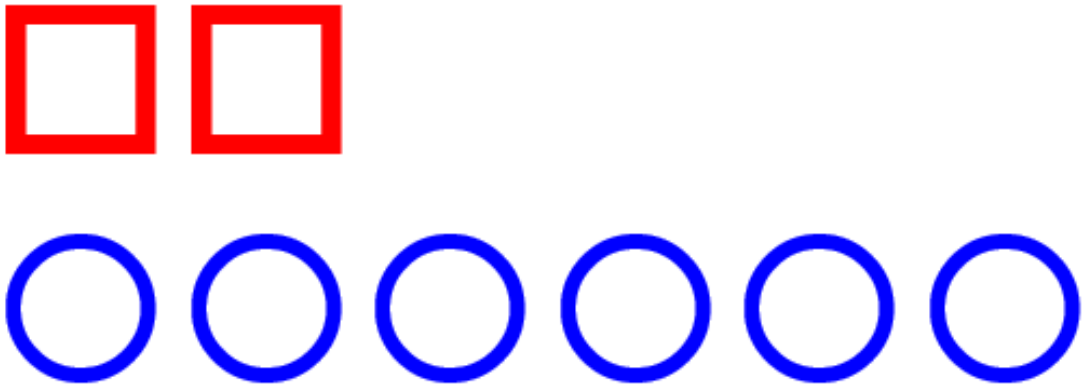
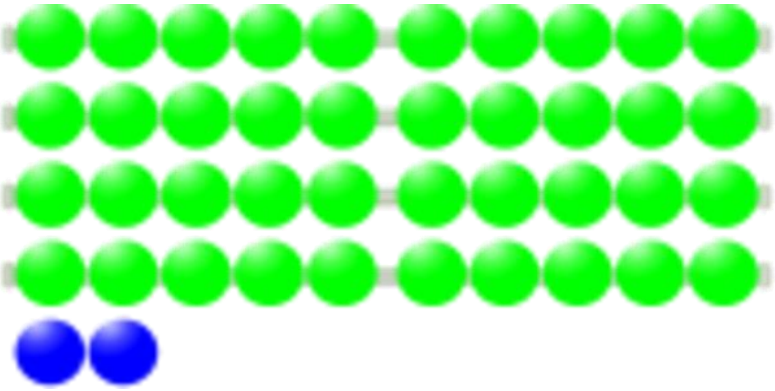
More Than



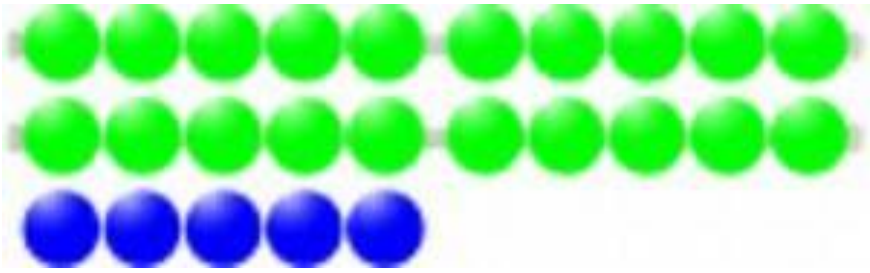
more ○ than □

VAAP Version

Greater Than



42



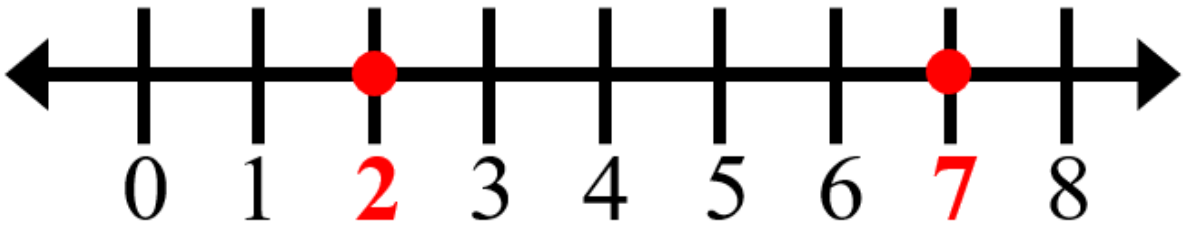
25

42 is greater than 25

VAAP Version

Greater Than

>



7 > 2

VAAP Version

Fewer Than

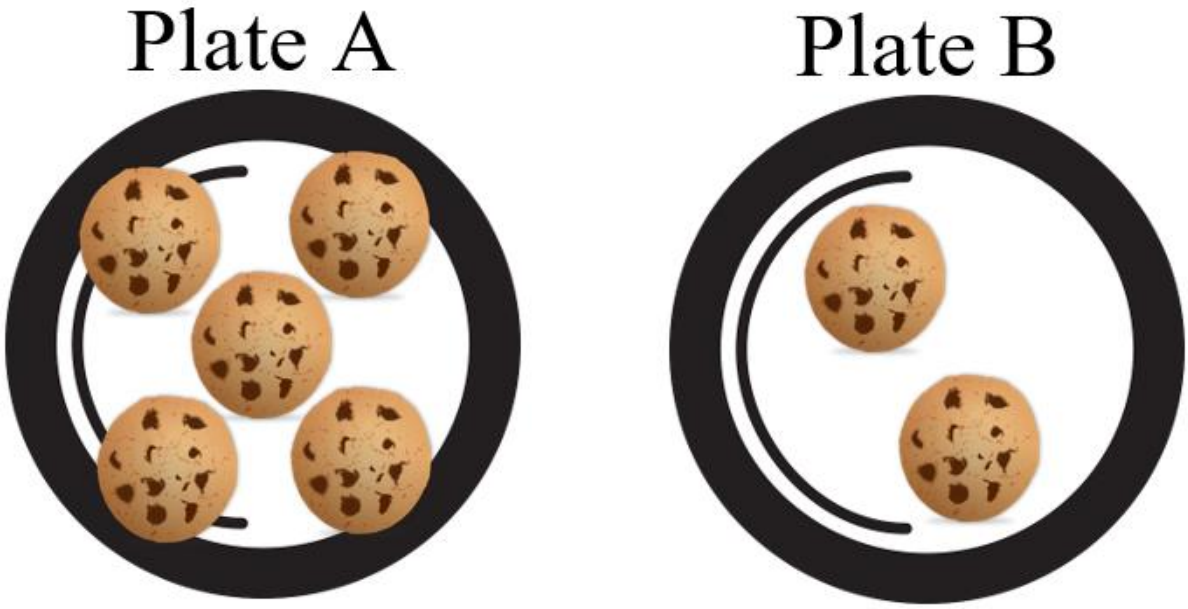


Plate B has fewer cookies than Plate A

VAAP Version

Less Than

Less □ than ○

VAAP Version

Less Than

13 keys

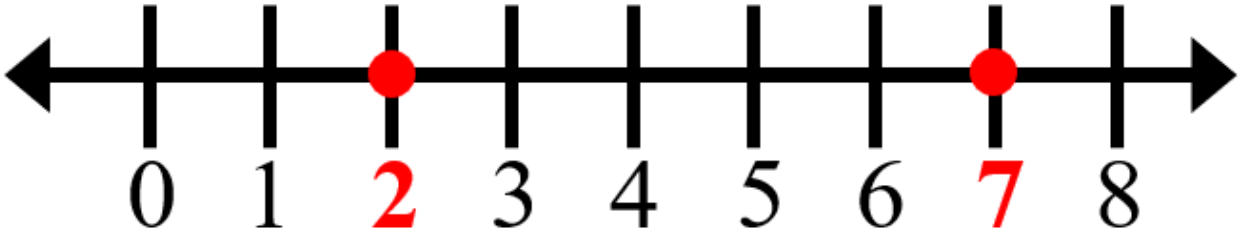
20 keys

13 is less than 20

VAAP Version

Less than

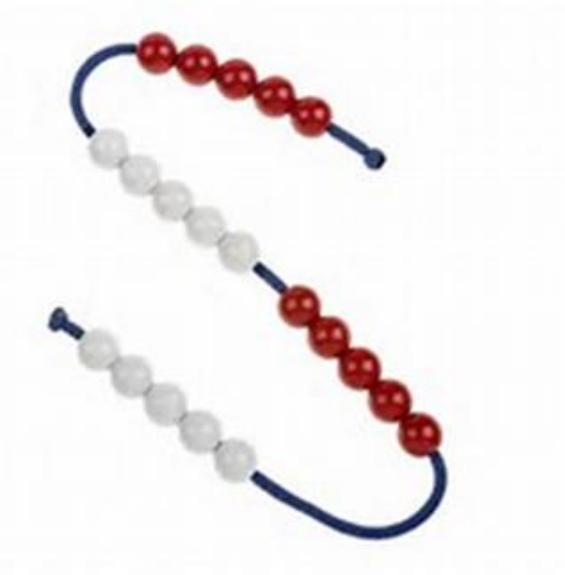
<



2 < 7

VAAP Version

Equal To



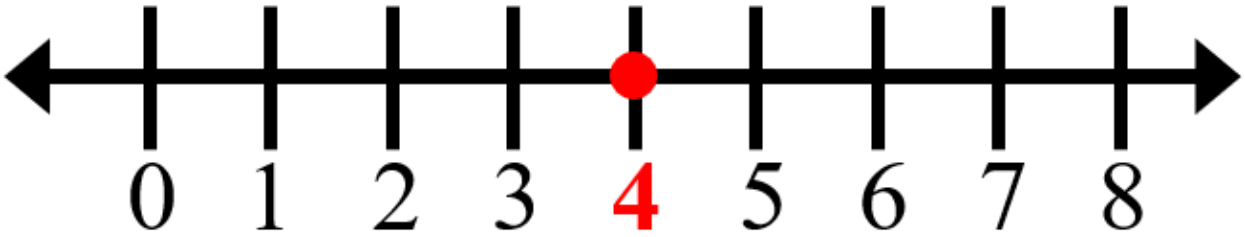
20 beads 20 keys

20 is equal to 20

VAAP Version

Equal to

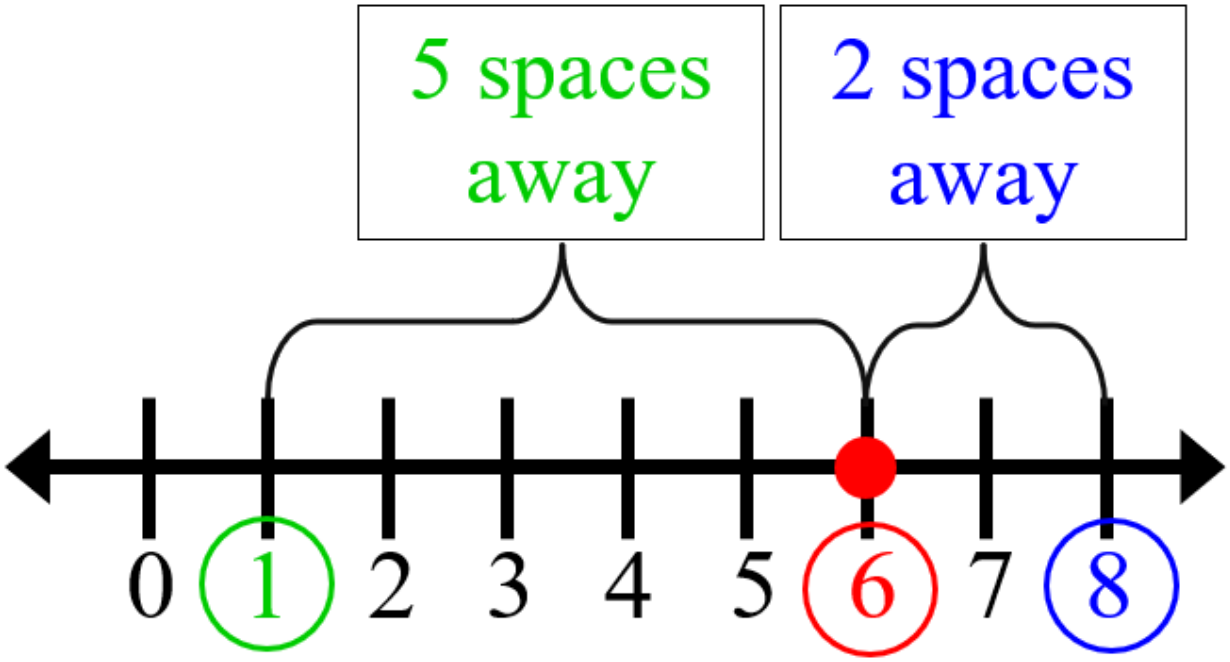
=



4 = 4

VAAP Version

Closest to



6 is closest to 8

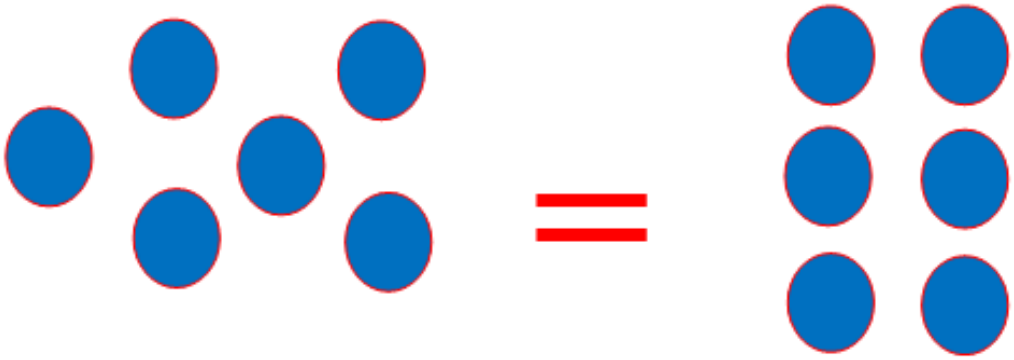
VAAP Version

Computation And Estimation

VAAP Version

Equal

has the same value



$$6 = 6$$

$$1 + 5 = 2 + 4$$

$$6 = 3 + 3$$

VAAP Version

Equal

has the same value

=

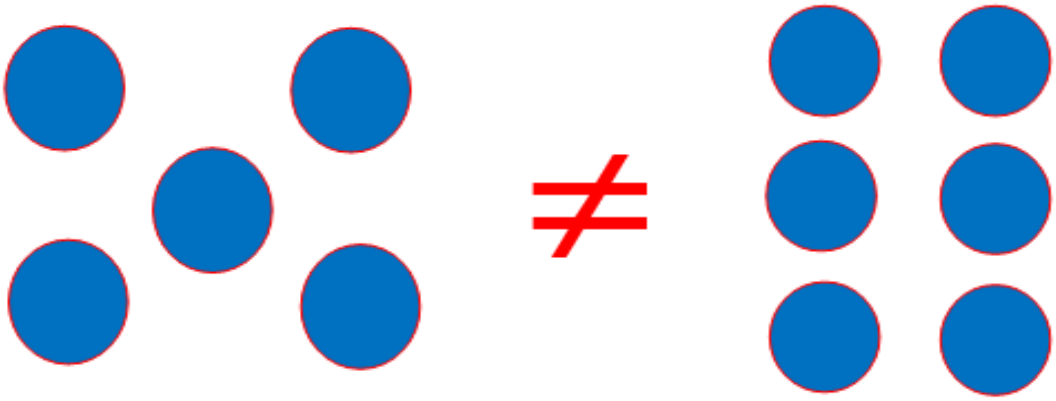
$9 + 24 = 10 + 23$

$45 - 9 = 46 - 10$

VAAP Version

Not Equal

does not have the same value



$$5 \neq 6$$

$$5 + 2 \neq 1 + 5$$

$$4 + 3 \neq 8$$

VAAP Version

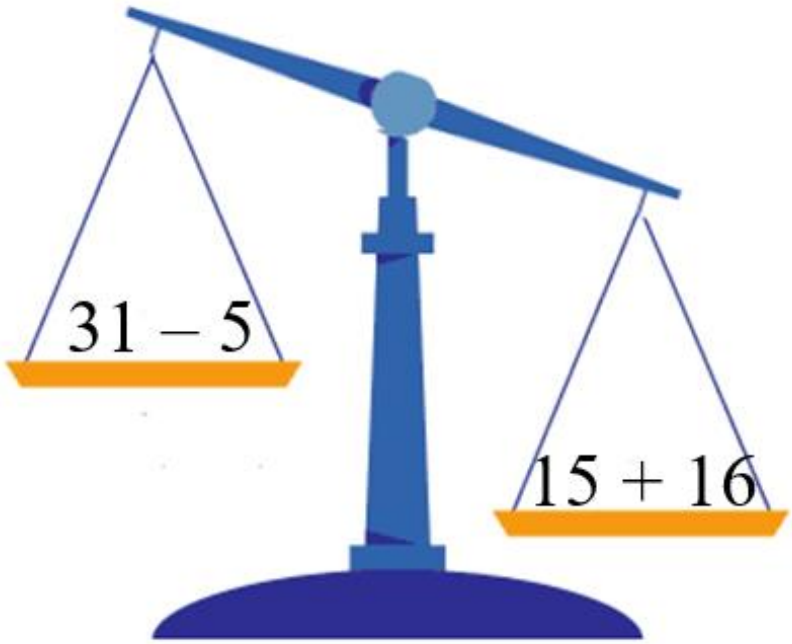
Not Equal

does not have the same value

$\neq$

$15 + 16 \neq 31 + 15$

$14 + 3 \neq 8$



VAAP Version

Addition

(add)

3 dogs and 1 dog is 4 dogs

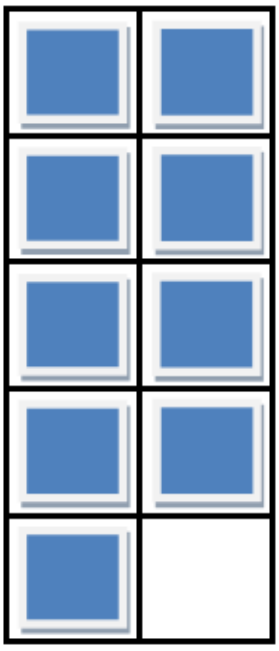
VAAP Version

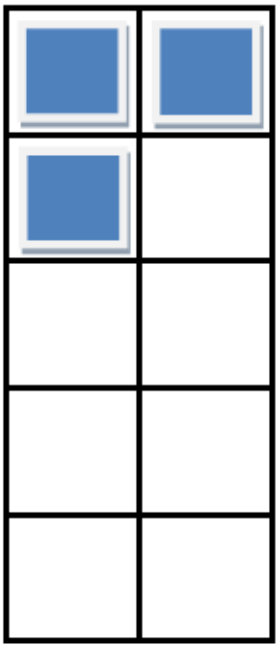
Addition

$$9 + 3 = 12$$

plus

sum





VAAP Version

Join

How many girls and boys are there?

VAAP Version

Subtraction

(subtract)

6 cupcakes take away 2 cupcakes is 4 cupcakes

VAAP Version

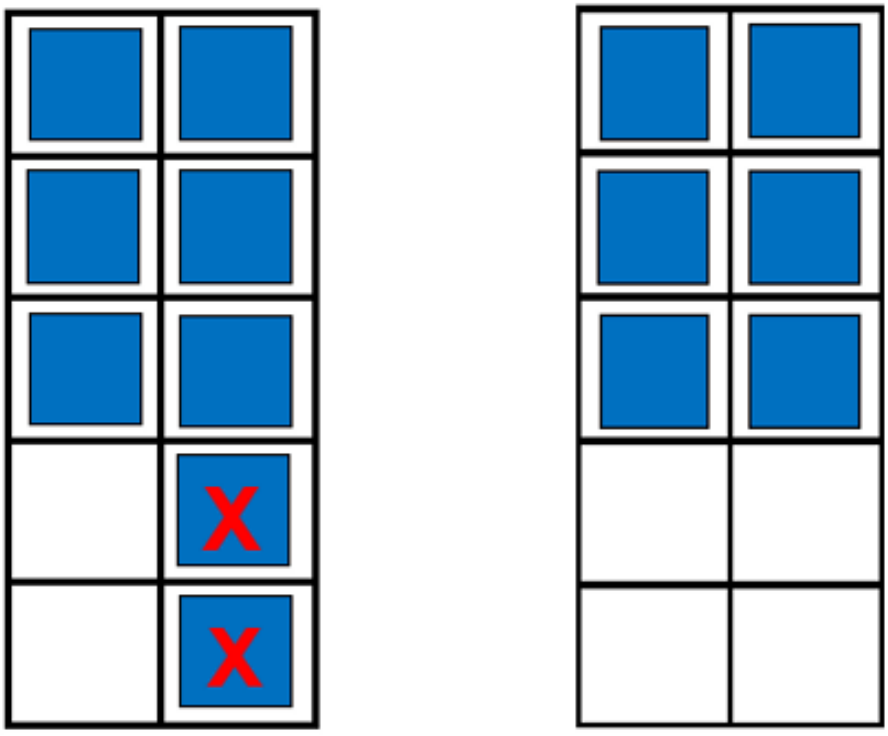
Subtraction

(subtract)

$8 - 2 = 6$

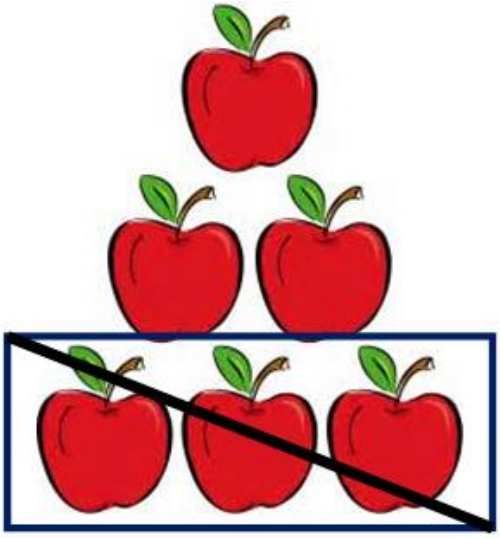
minus

difference



VAAP Version

Separate



6 apples

3 were eaten

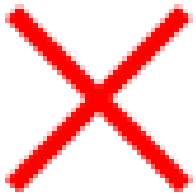
How many are there now?

VAAP Version

Multiplication

$3 \times 4 = 12$

product

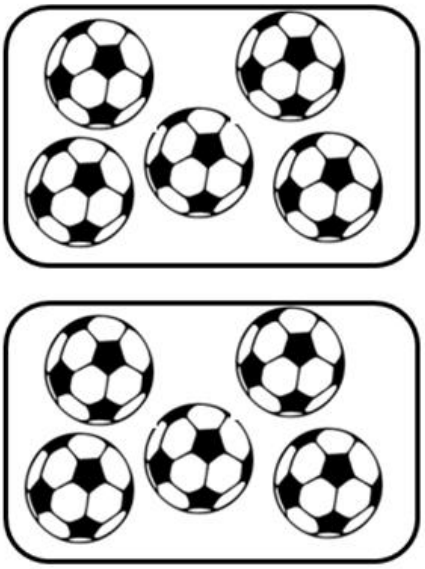


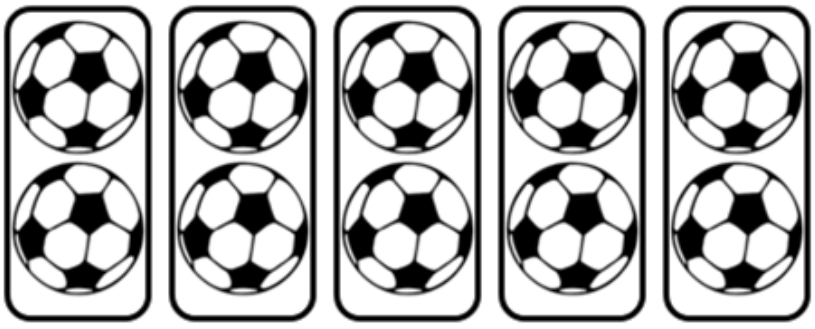
VAAP Version

Multiplication

2 x 5

2 groups of 5 balls



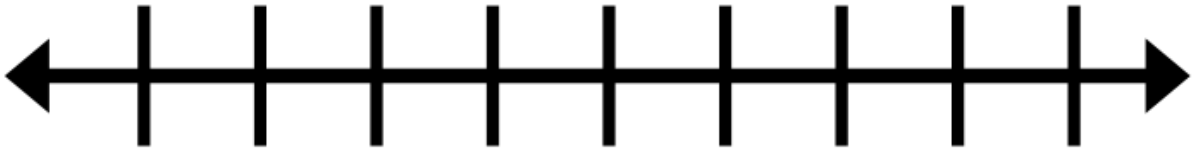


5 x 2

5 groups of 2 balls

VAAP Version

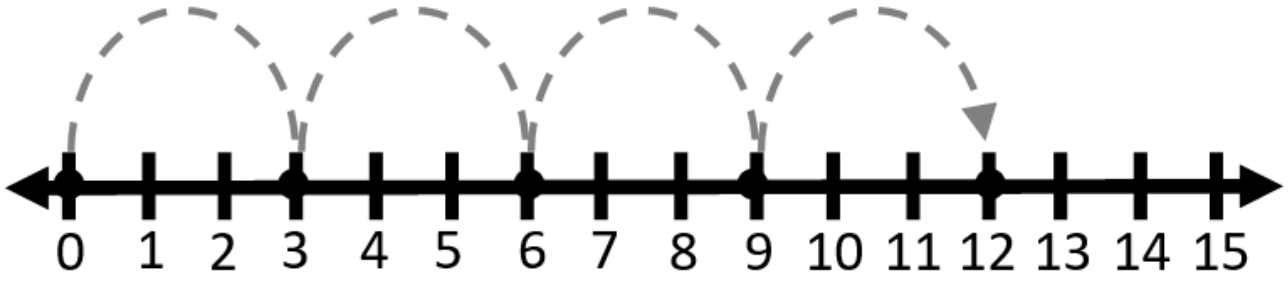
Number Line



VAAP Version

Number Line Model

$$4 \times 3 = 12$$



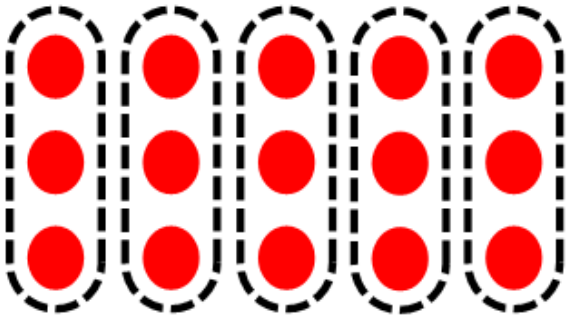
VAAP Version

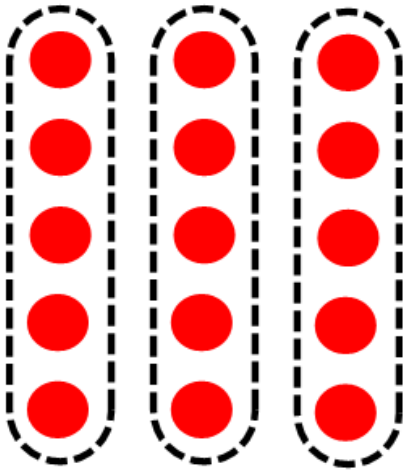
Division

15 pieces of candy shared with friends

$15 \div 3$

3 pieces of candy shared with 5 friends





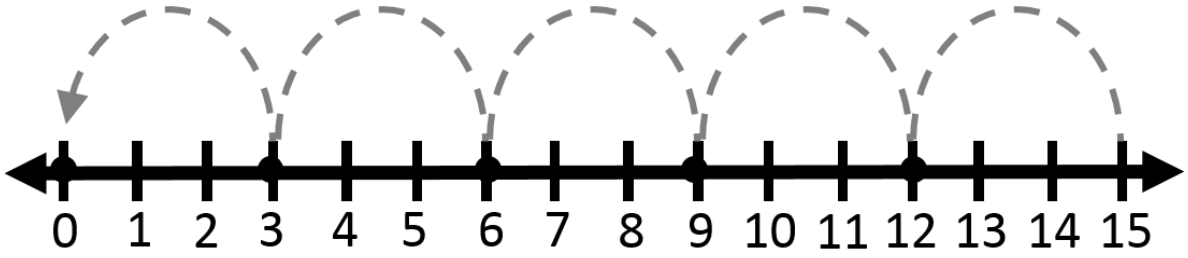
$15 \div 5$

5 pieces of candy shared with 3 friends

VAAP Version

Division

Number Line

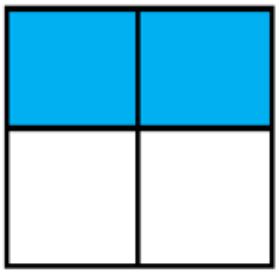


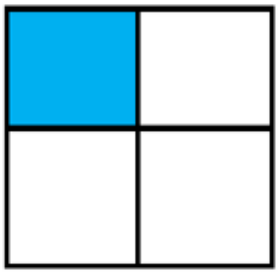
$15 \div 3 = 5$

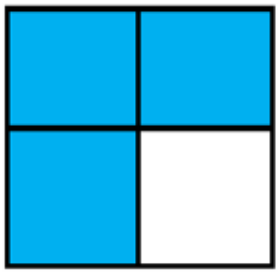
VAAP Version

Fraction Addition

$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$





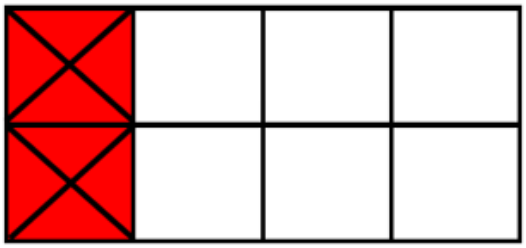


VAAP Version

Fraction Subtraction

$\frac{5}{8}$

$-\ \frac{2}{8}$



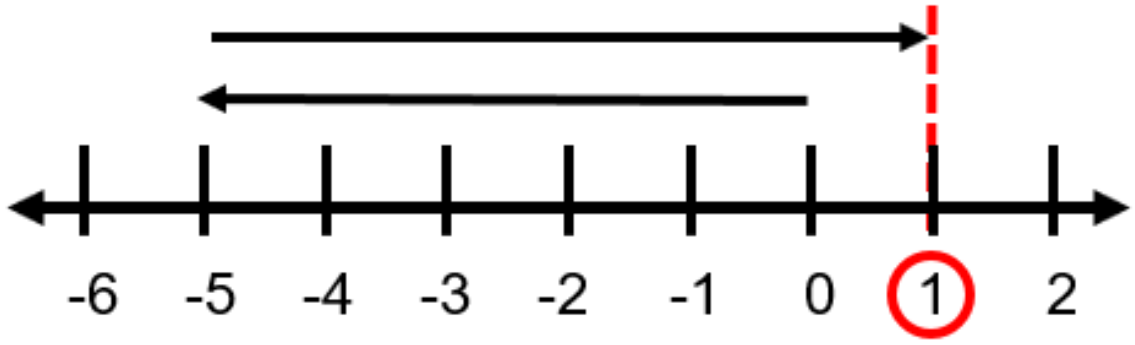
$\frac{3}{8}$

VAAP Version

Integer Operations

Addition

$$-5 + 6 = 1$$



Subtraction

$$1 - 6 = -5$$

VAAP Version

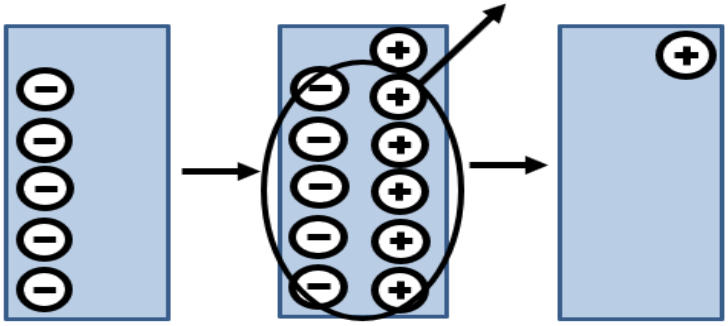
Integer Operations

Key:

⊕ = positive 1 ⊖ = negative 1  = 0 pair

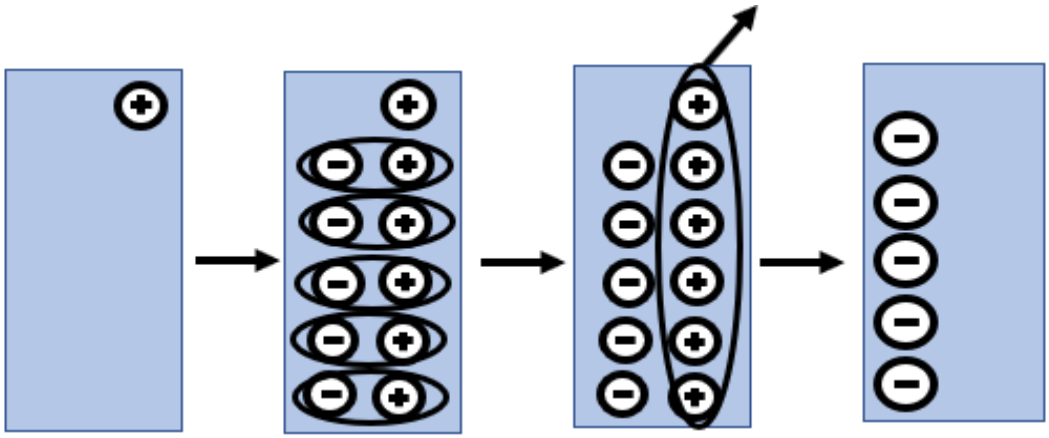
Addition

$-5 + 6 = 1$



Subtraction

$1 - 6 = -5$

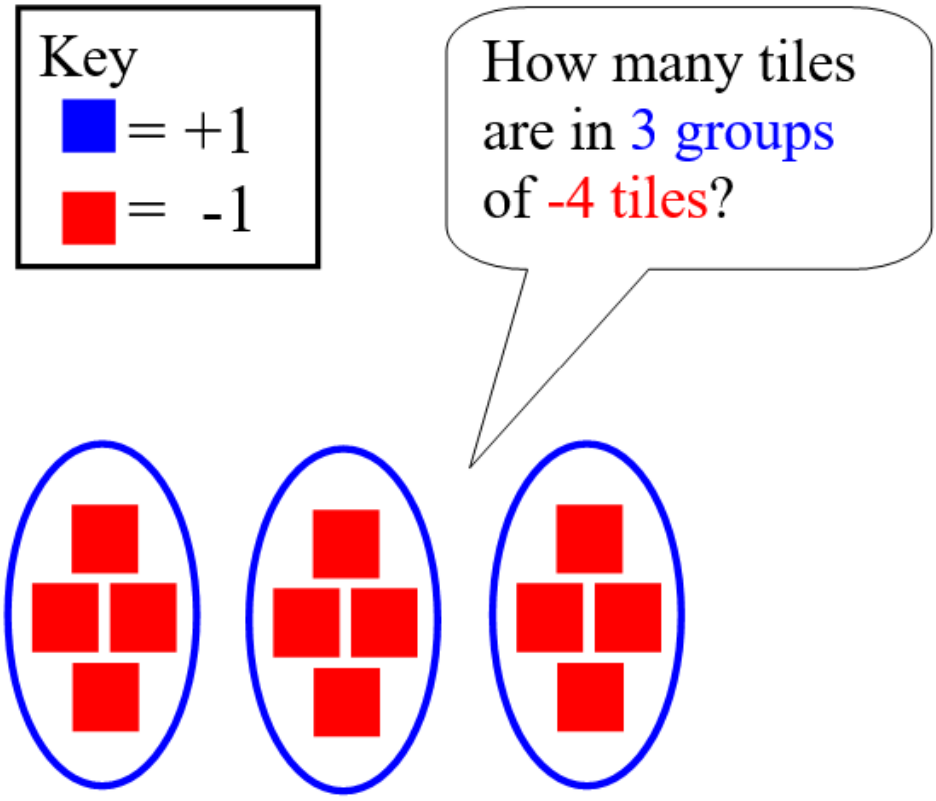


VAAP Version

Integer Operations

Multiplication

$$3 \cdot (-4) = -12$$

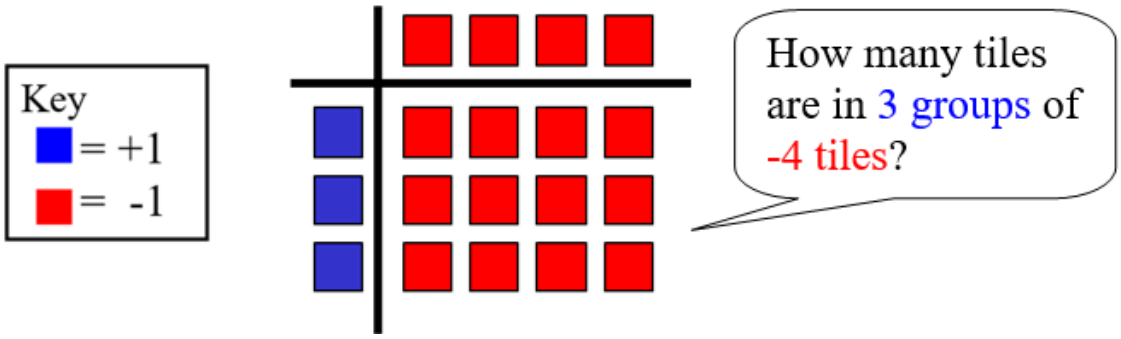


VAAP Version

Integer Operations

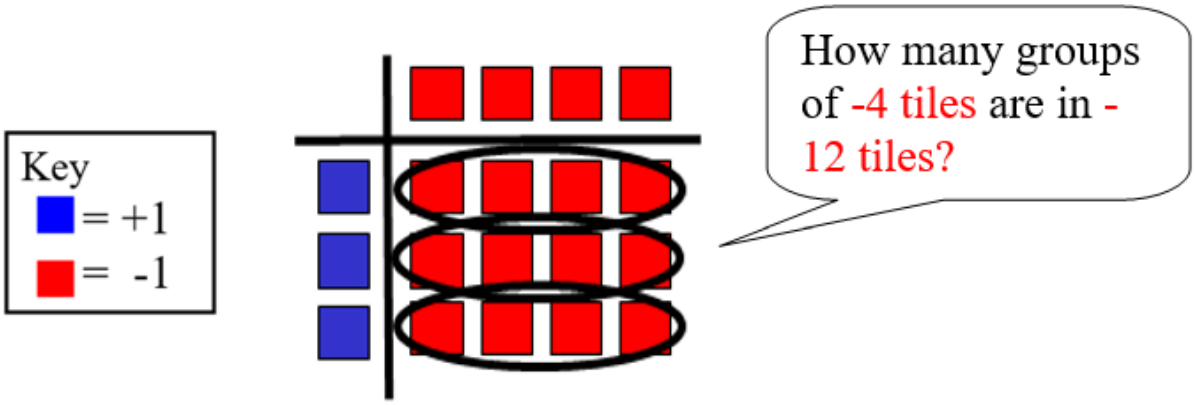
Multiplication

$3 \cdot (-4) = -12$



Division

$-12 \div -4 = 3$



VAAP Version

Measurement

VAAP Version

Penny

1¢

one cent

VAAP Version

Nickel

5¢

five cents

VAAP Version

Nickel

one nickel equals five pennies

5¢

5 cents

VAAP Version

Dime

10¢

ten cents

VAAP Version

Dime

one dime equals ten pennies

10¢

10 cents

VAAP Version

Quarter

25¢

twenty-five cents

VAAP Version

Quarter

one quarter equals twenty-five pennies

25¢

25 cents

VAAP Version

Dollar

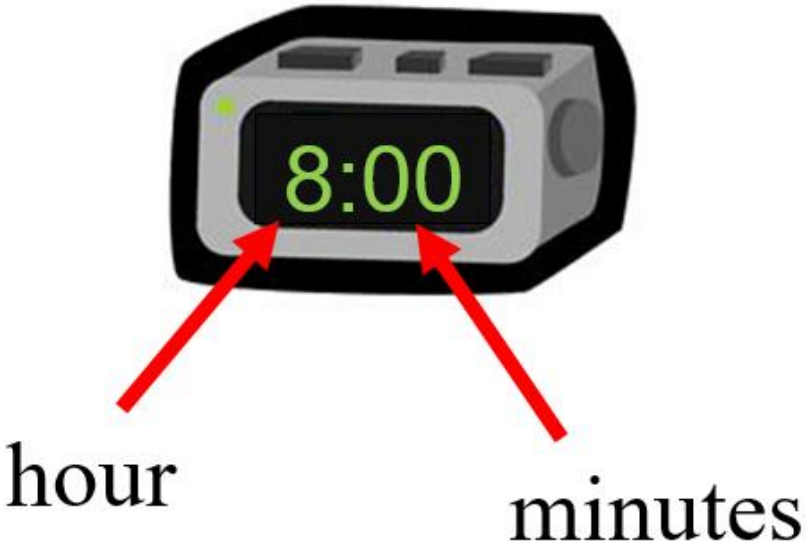
$1.00

one hundred cents

VAAP Version

Clock

time

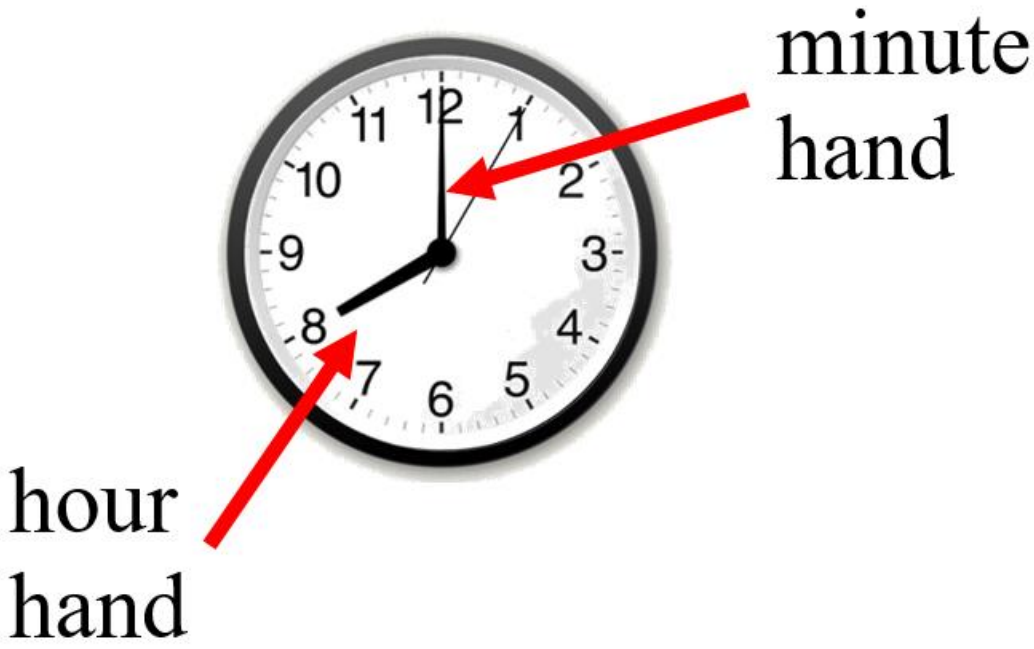


digital

VAAP Version

Clock

time



analog

VAAP Version

Clock

time

digital

analog

VAAP Version

Clock

minutes, one-half Hour, one Hour

digital

analog

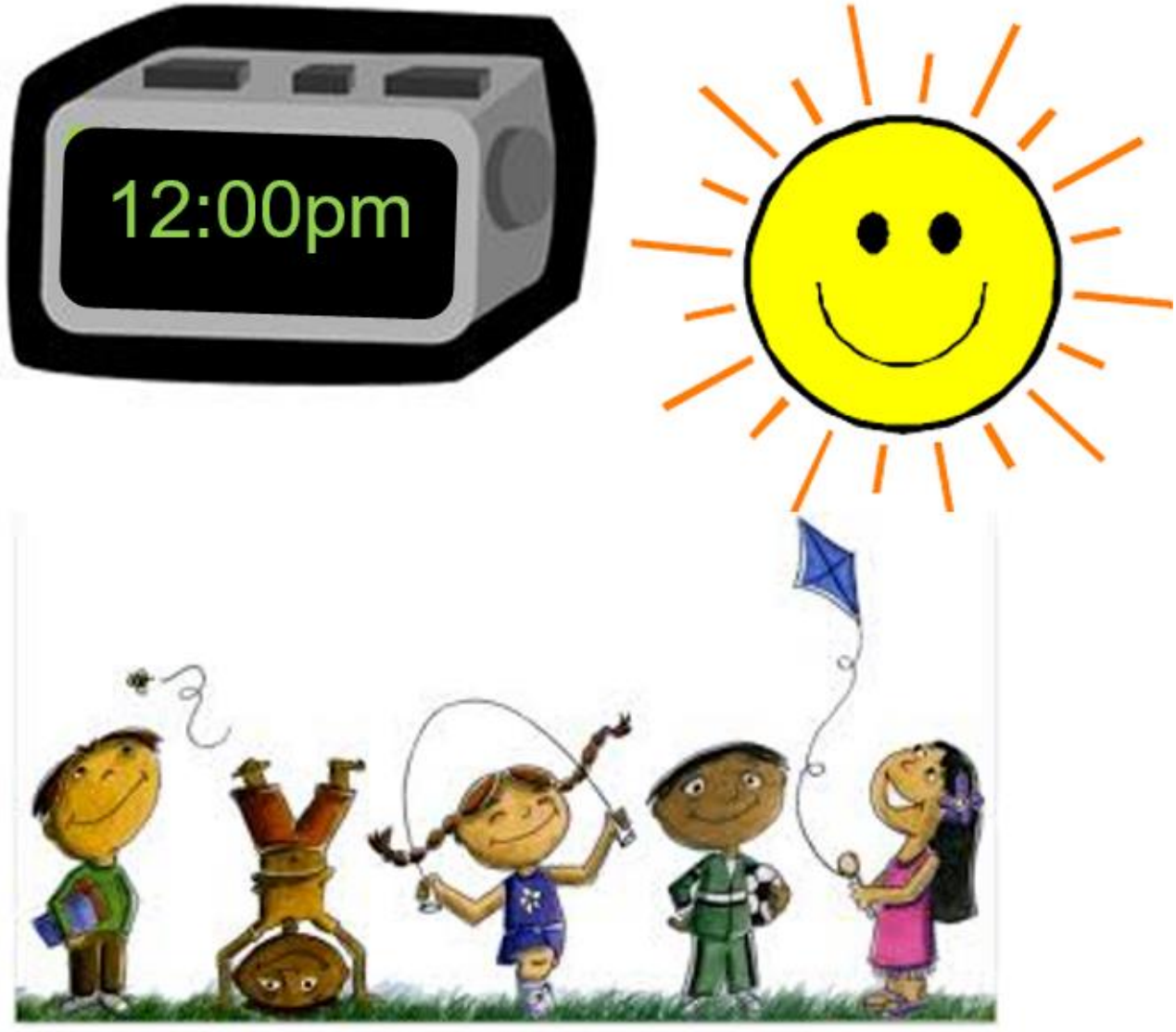
30 minutes = one-half hour
60 minutes = 1 hour
24 hours = 1 day

VAAP Version

Midnight

VAAP Version

Noon



VAAP Version

AM

midnight to noon

12:00am → 12:00pm

VAAP Version

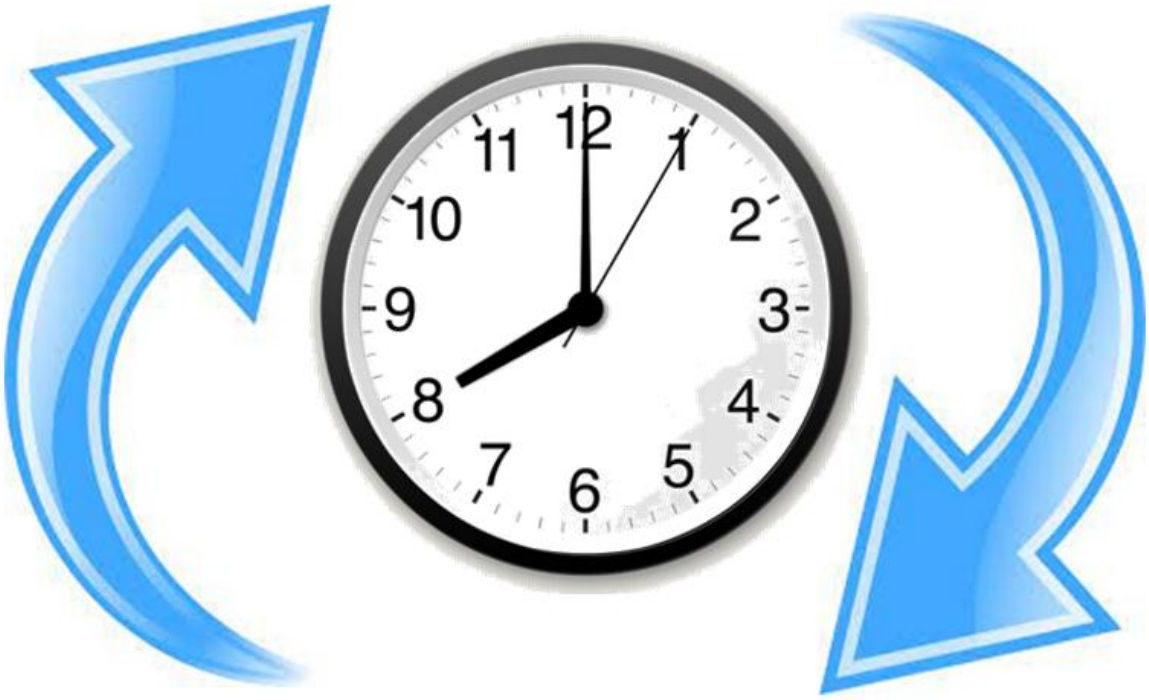
PM

noon to midnight

12:00pm → 12:00am

VAAP Version

Clockwise

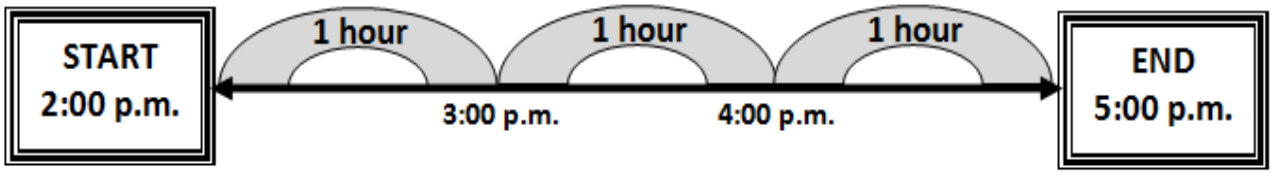


VAAP Version

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.

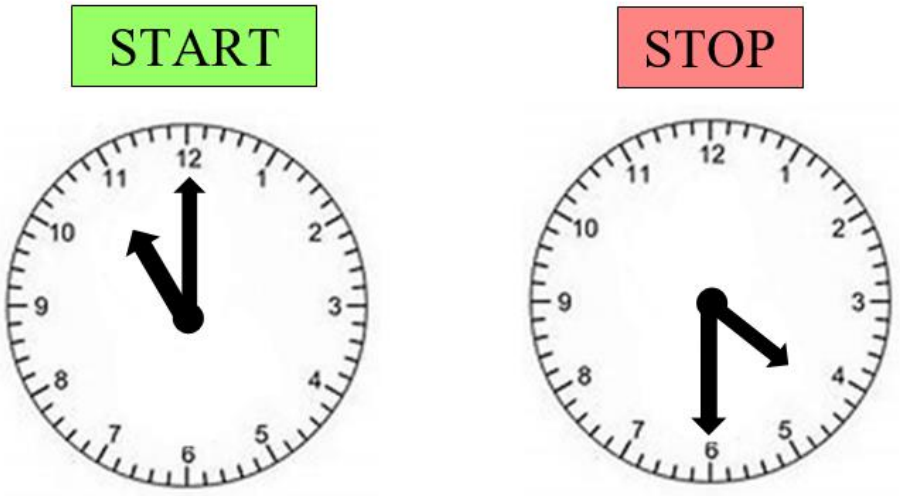


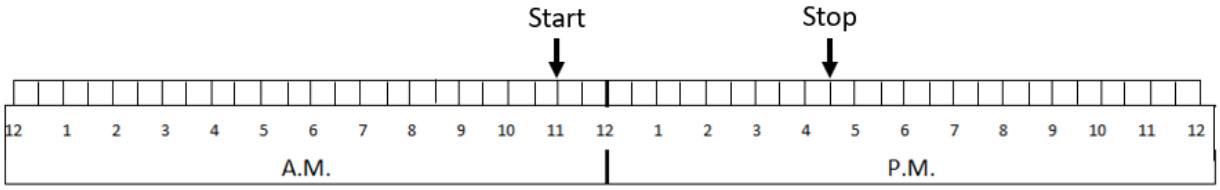
The movie is three hours long.

VAAP Version

Elapsed Time

amount of time that has passed between two given times



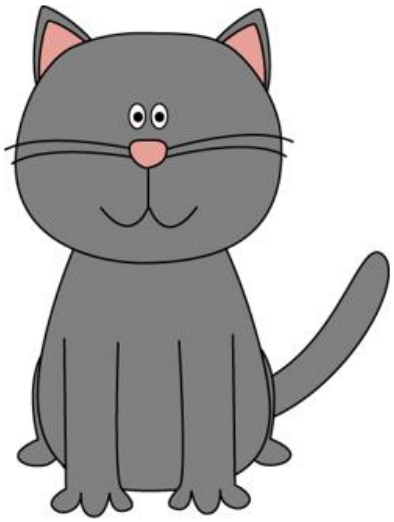


VAAP Version

Weight

heavier/lighter

heavier



lighter

VAAP Version

Length

longer/shorter

longer

shorter

longer

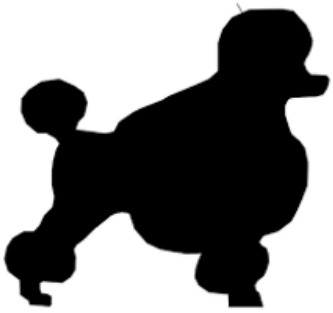
shorter

VAAP Version

Height

taller/shorter

taller



shorter

VAAP Version

Temperature

hotter/colder

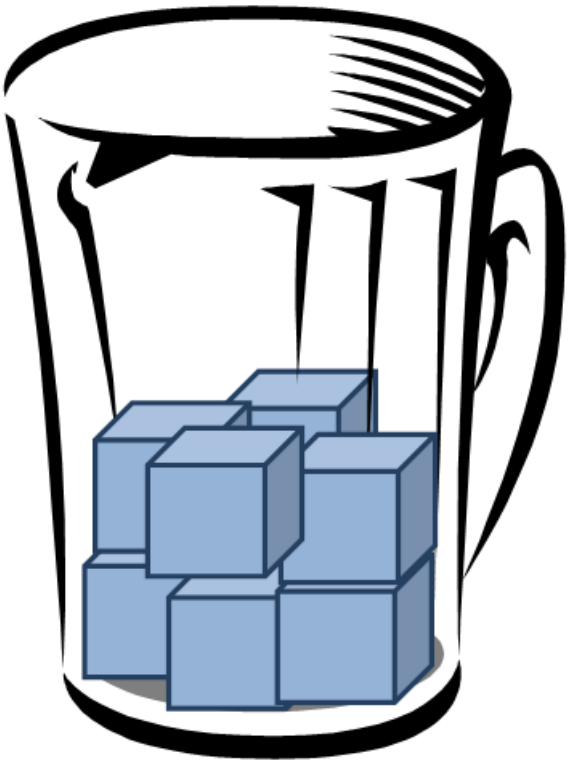
hotter

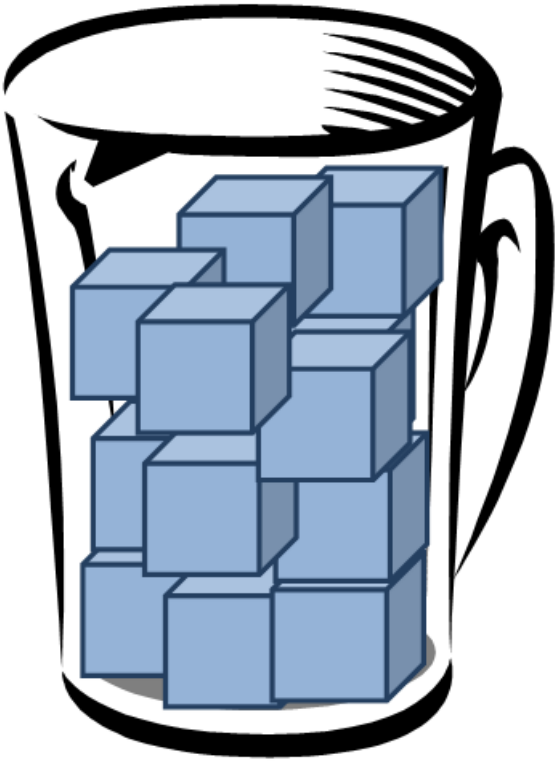
colder

VAAP Version

Volume

less /more



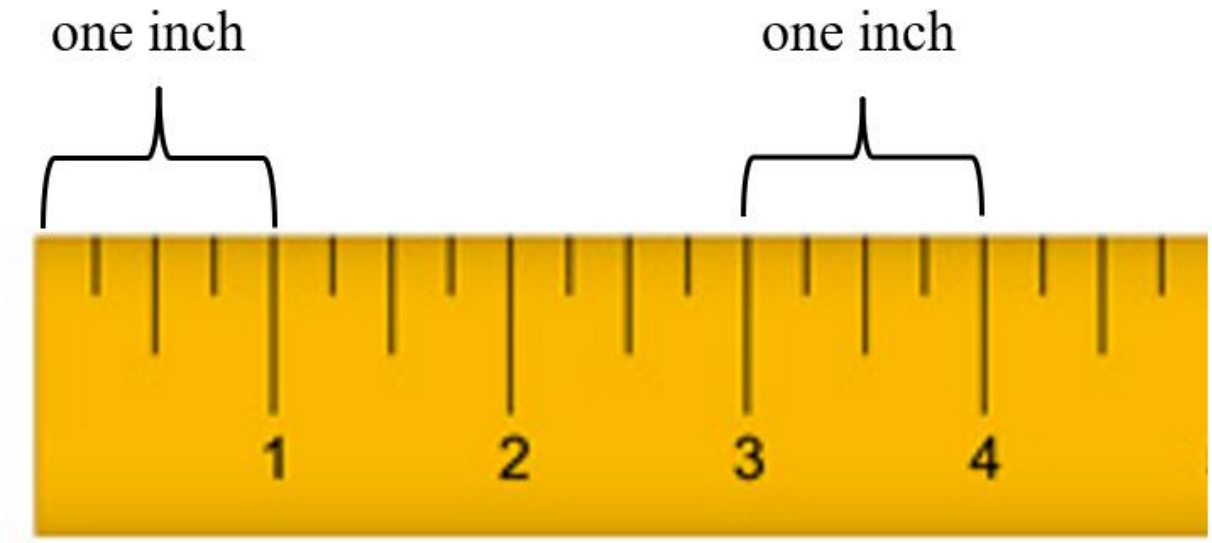


less more

VAAP Version

Ruler

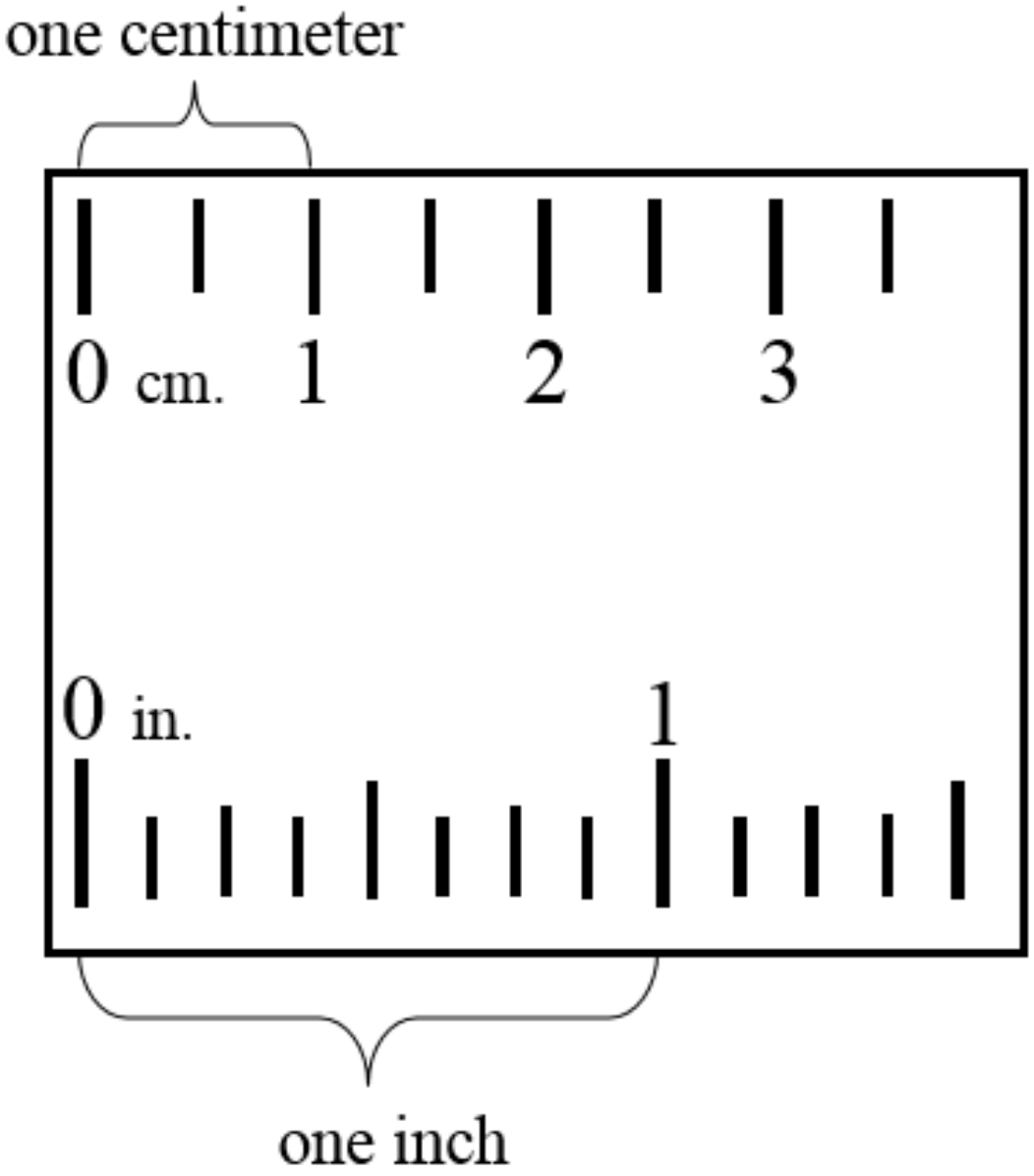
1 inch



VAAP Version

Ruler

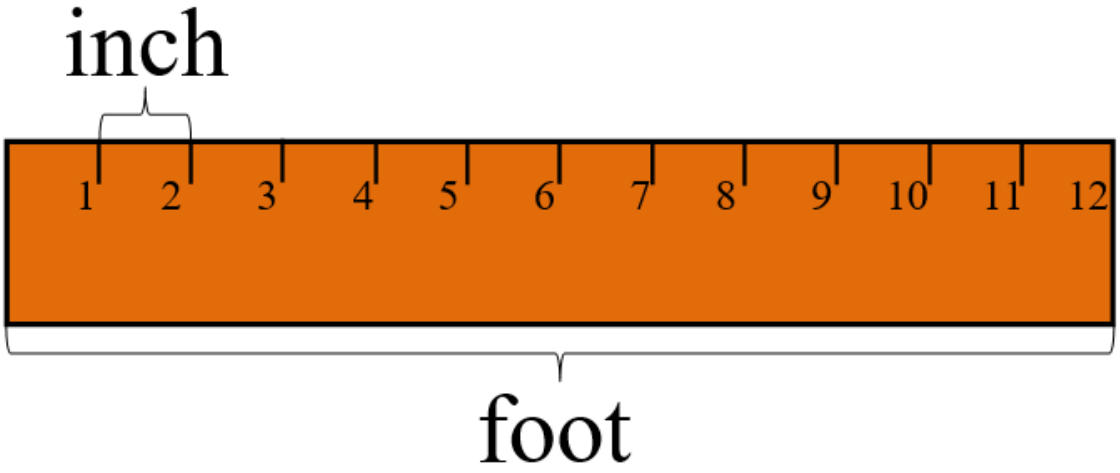
centimeter/inch



VAAP Version

Ruler

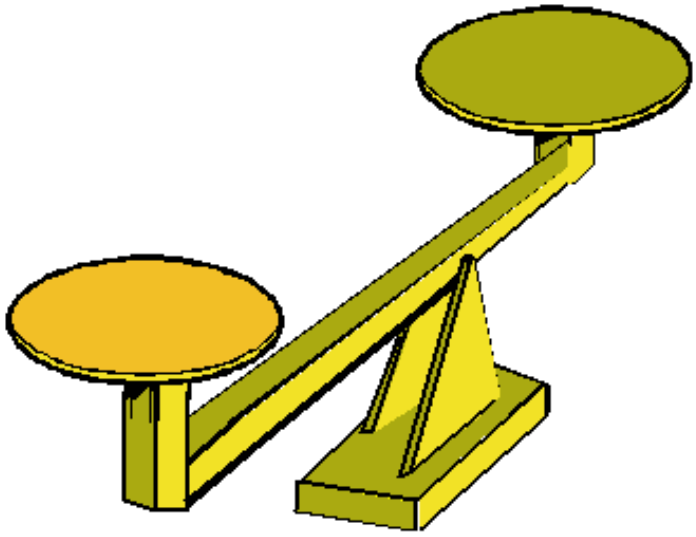
inch/foot



VAAP Version

Balance Scale

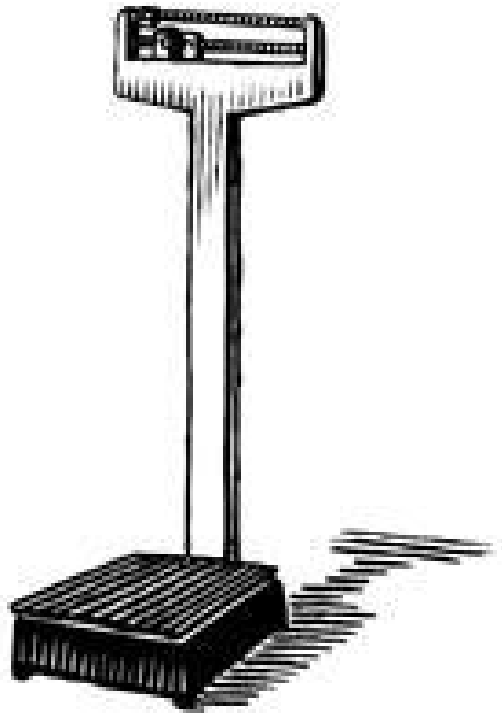
weight/mass



VAAP Version

Scale

weight/mass



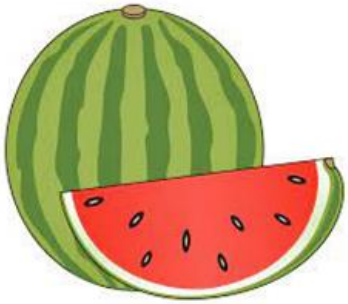
VAAP Version

Pound (lb)

weight

about
1 lb

about
10 lbs

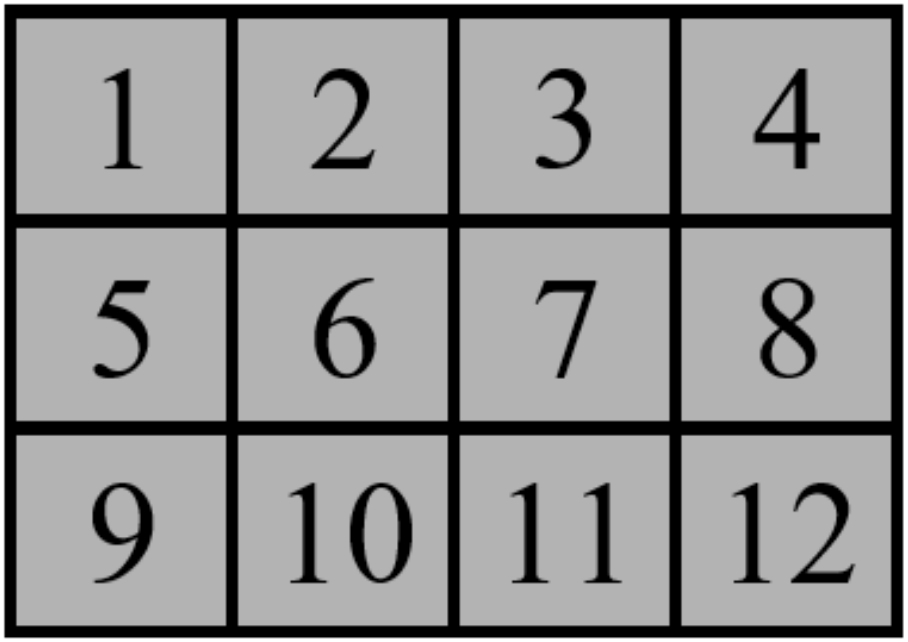


about
20 lbs

VAAP Version

Area

square units

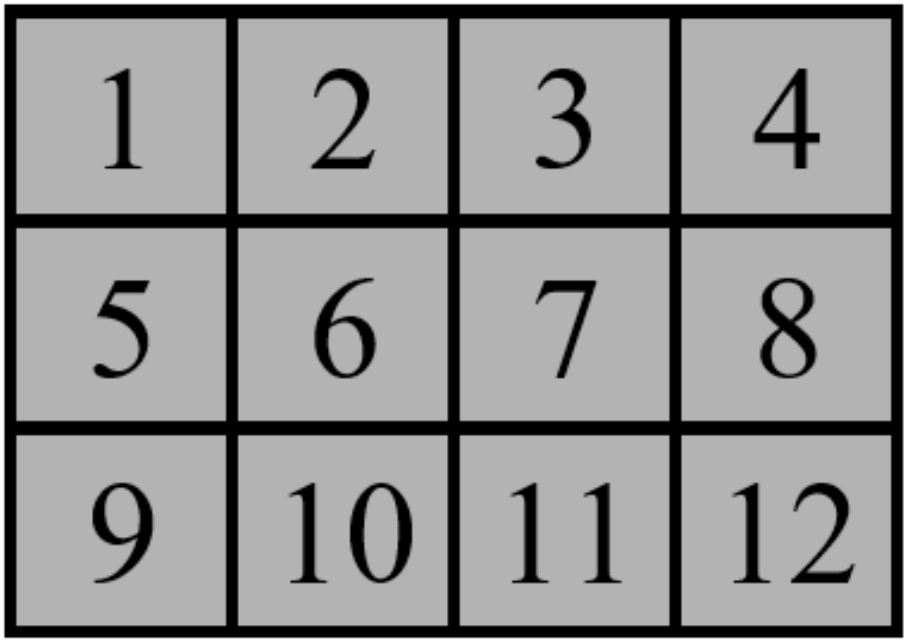


12 square units

VAAP Version

Area

square units



length x width

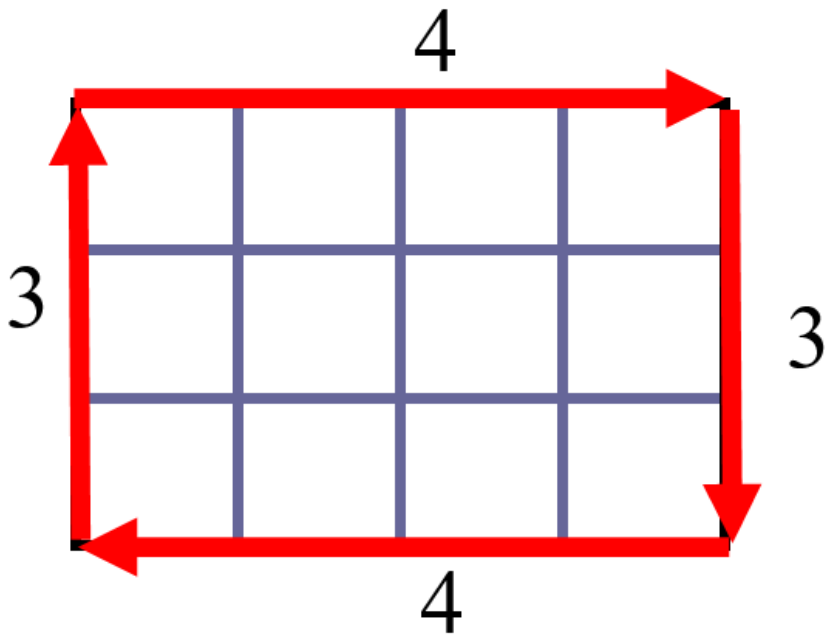
3 x 4 = 12

12 square units

VAAP Version

Perimeter

units



3 + 4 + 3 + 4

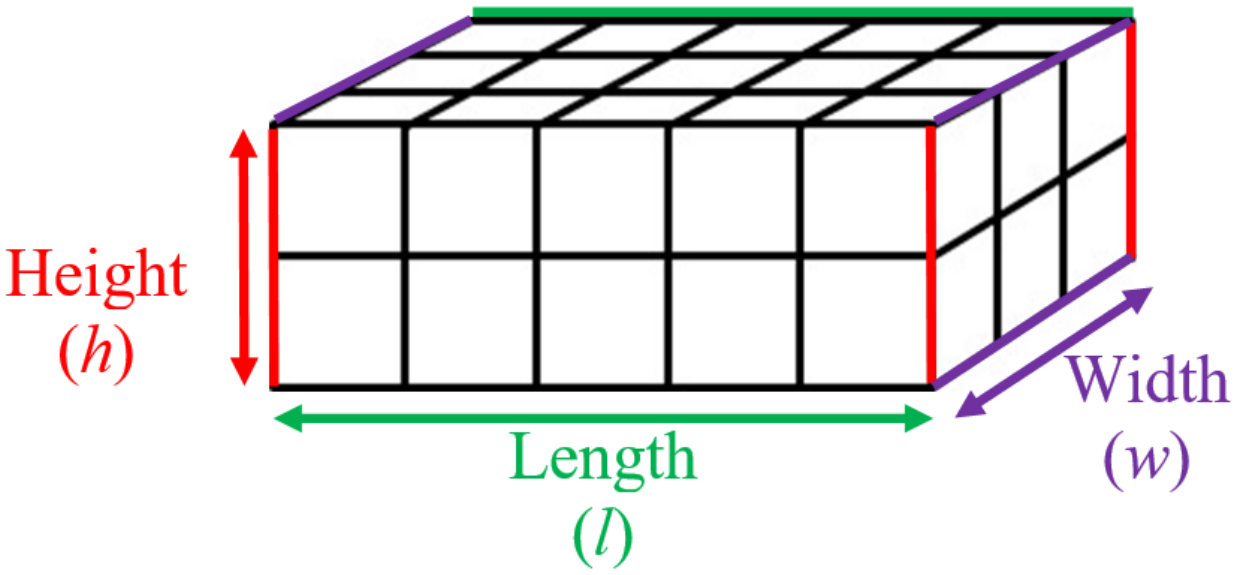
14 units

VAAP Version

Volume

length, width, height

$V=lwh$



l x w x h

5 x 3 x 2

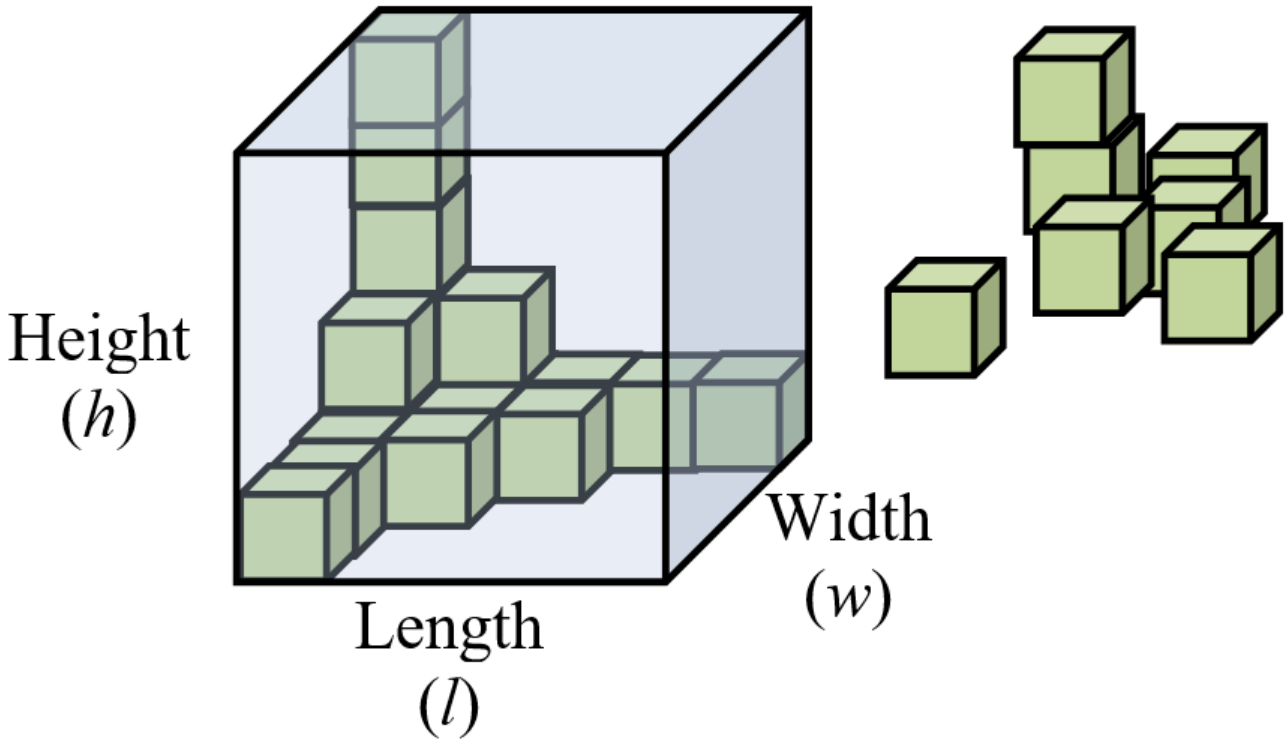
volume = 30 cubic units

VAAP Version

Volume

area of the base times the height

$V=Bh$



B x h

25 x 5

Volume = 125 cubic units

VAAP Version

Geometry

VAAP Version

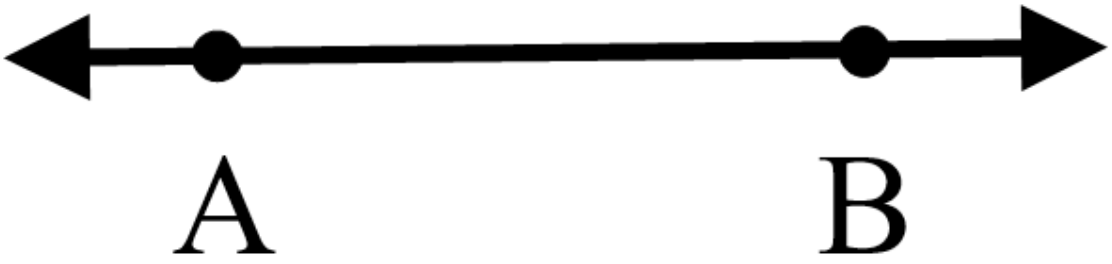
Point

VAAP Version

Line Segment

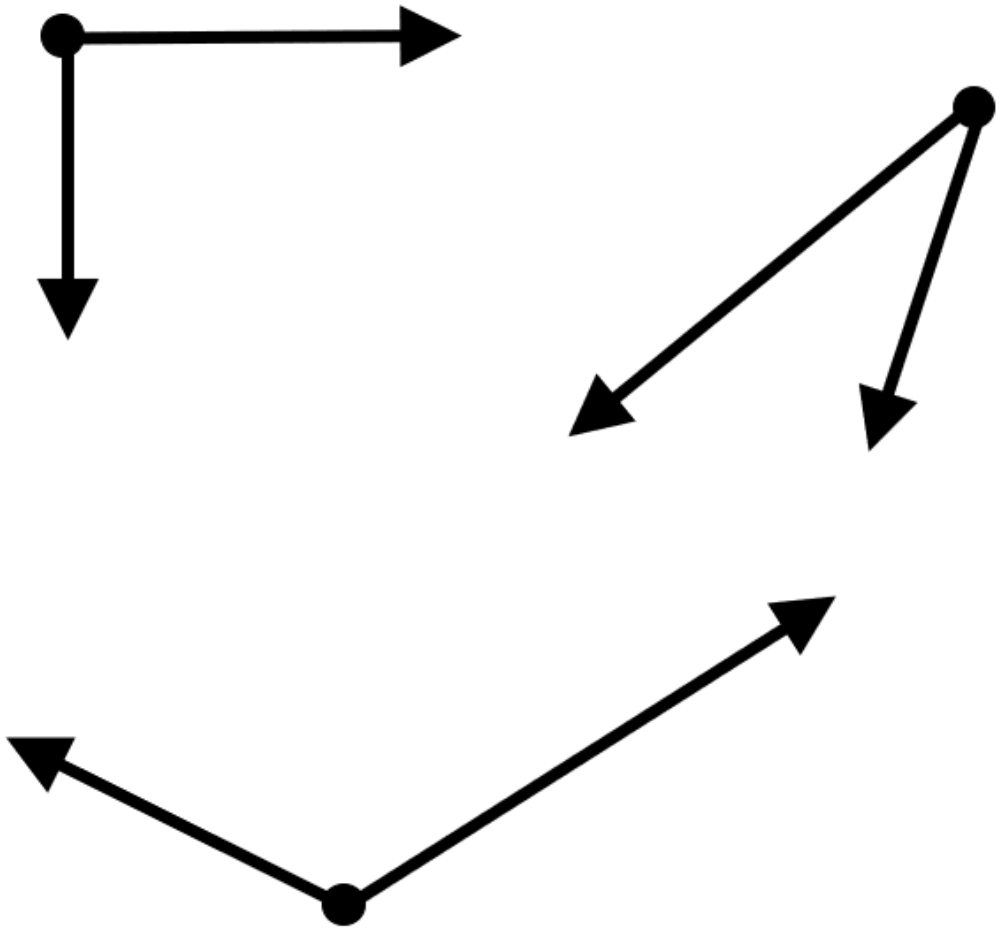
VAAP Version

Line



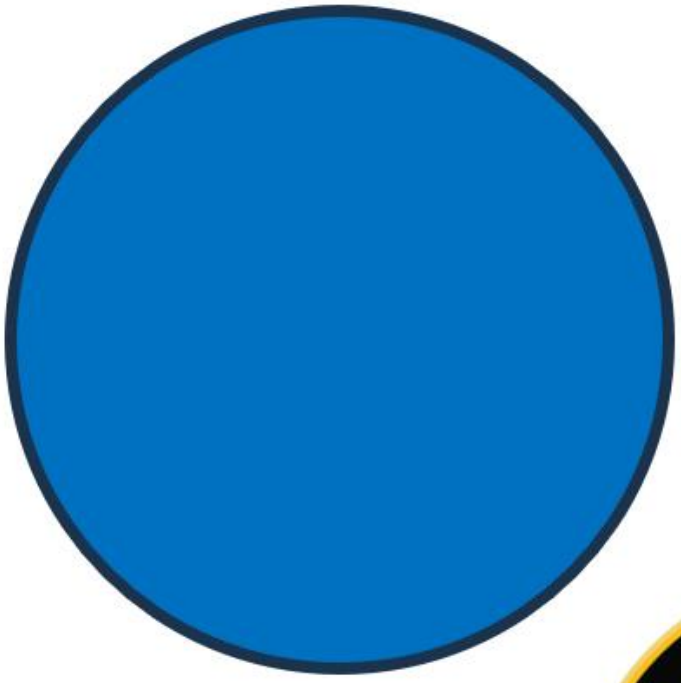
VAAP Version

Angle



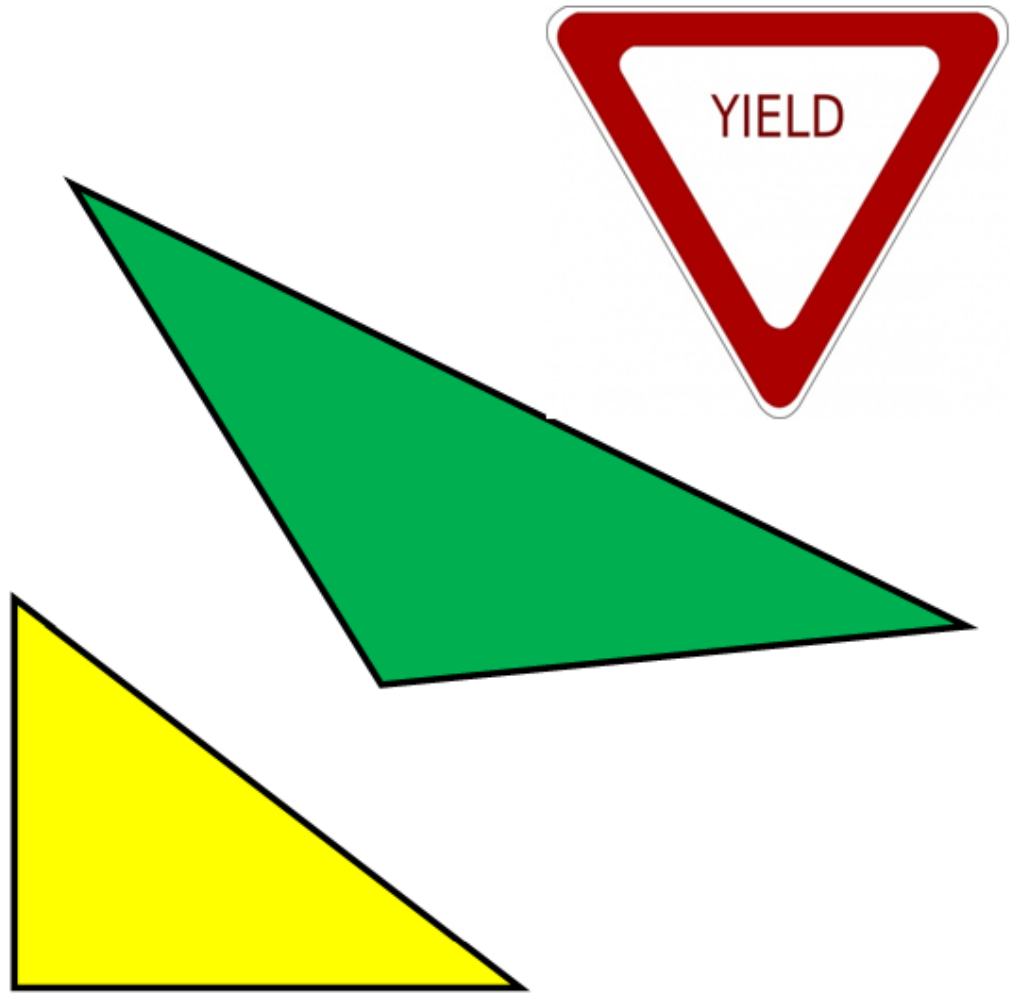
VAAP Version

Circle



VAAP Version

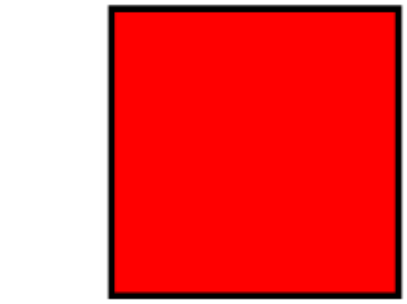
Triangle

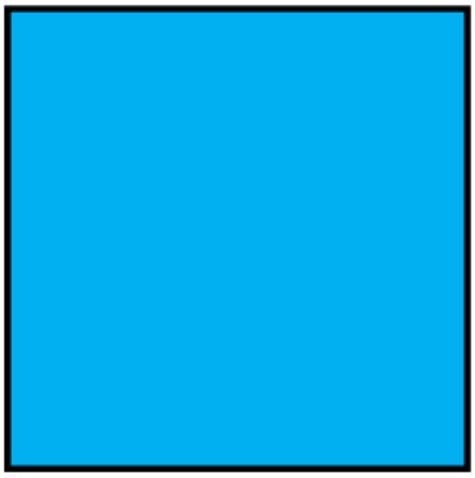


three-sided figure

VAAP Version

Square



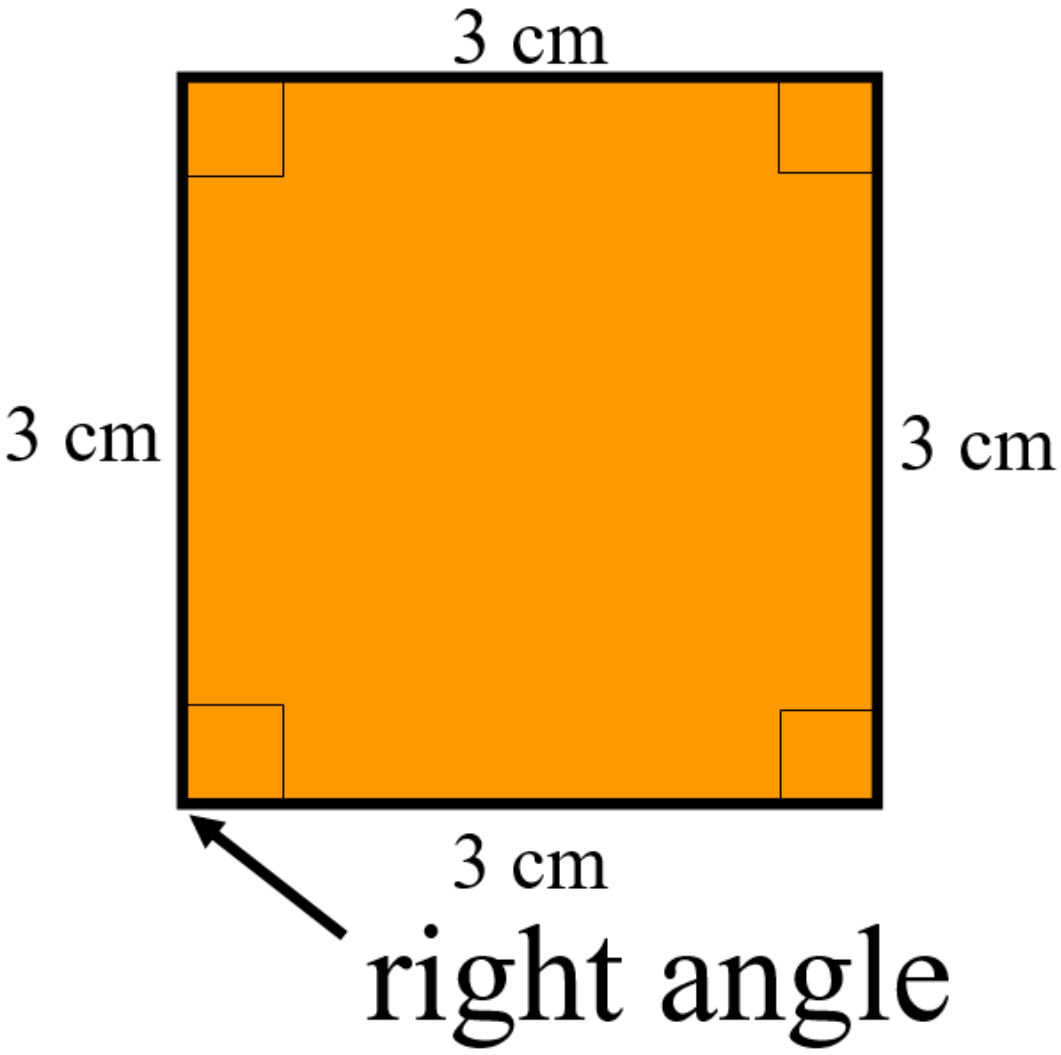


four-sided figure

VAAP Version

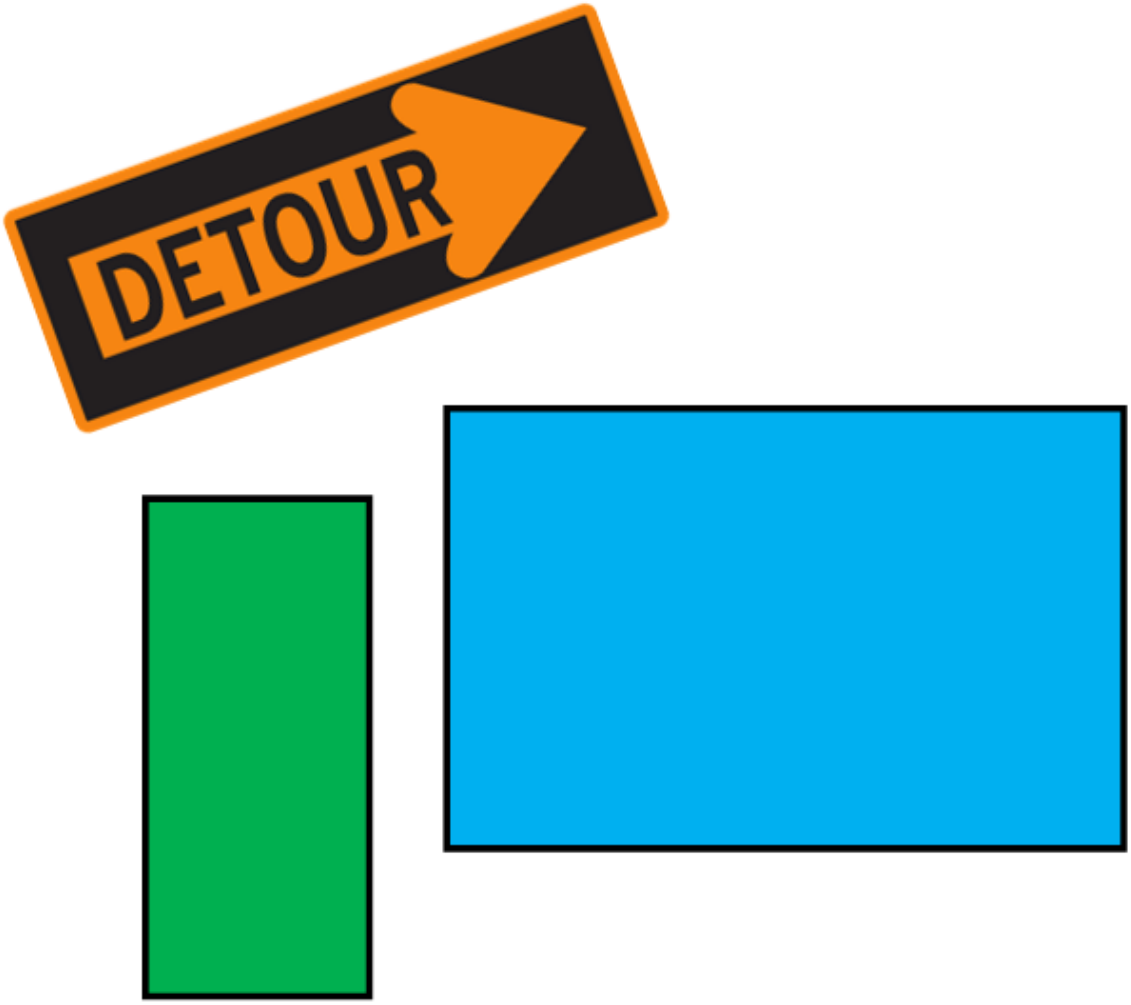
Square

all angles are right angles
all sides are congruent



VAAP Version

Rectangle



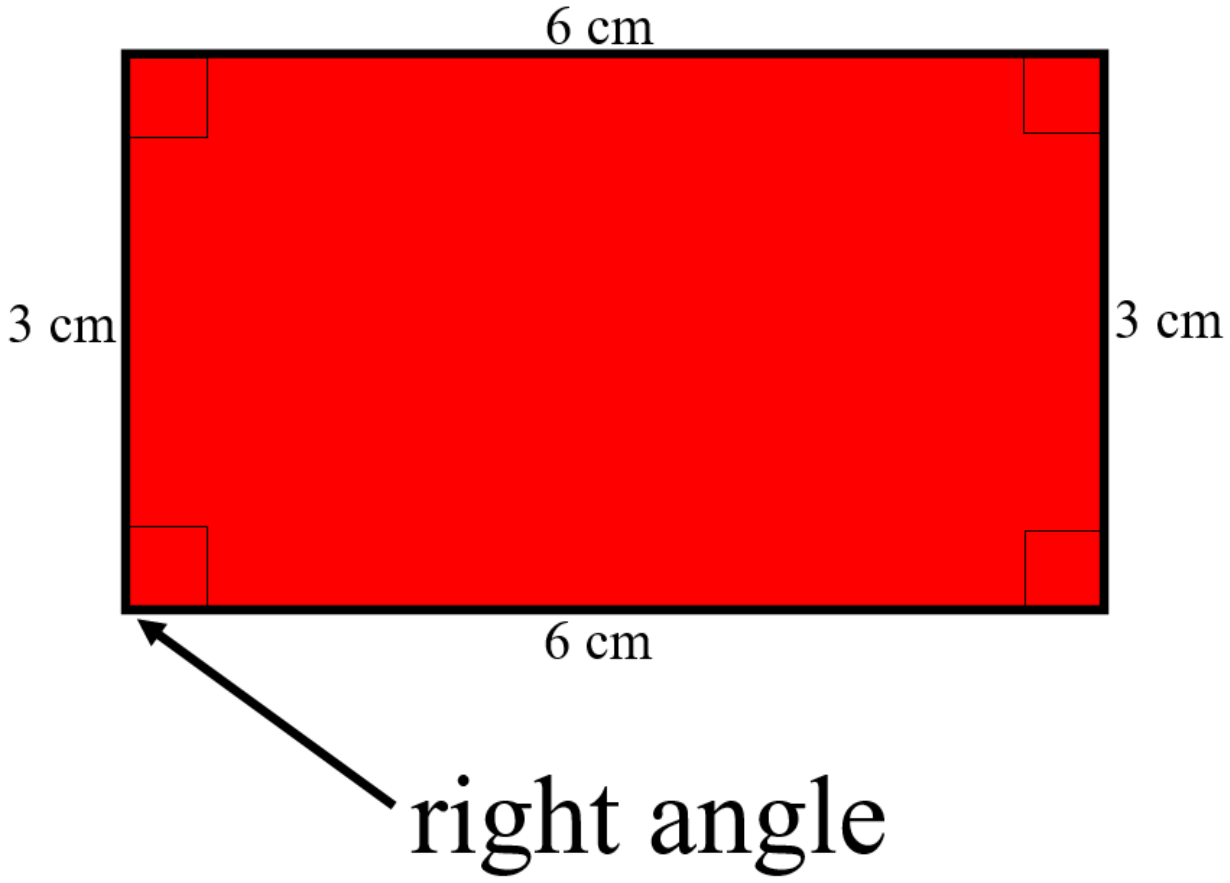
four-sided figure

VAAP Version

Rectangle

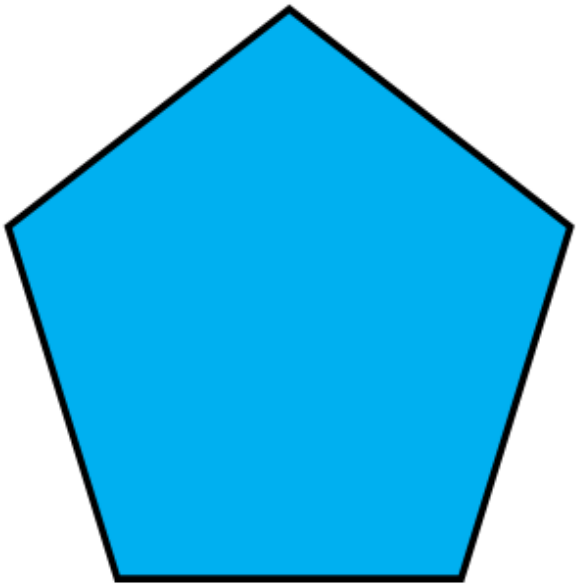
all angles are right angles

opposite sides are congruent



VAAP Version

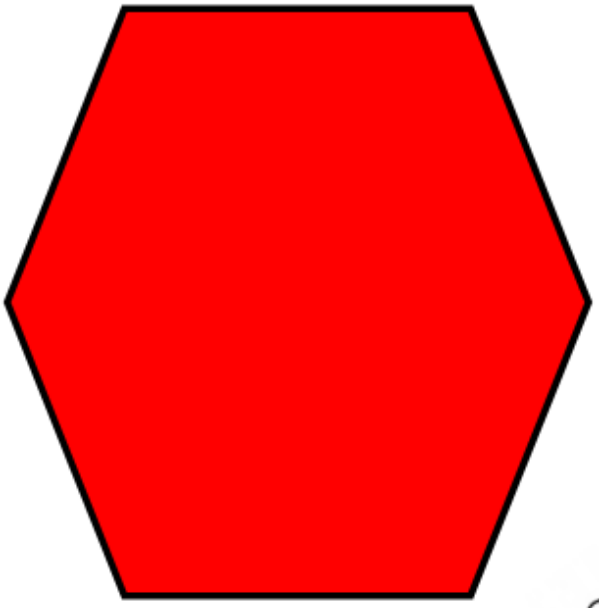
Pentagon

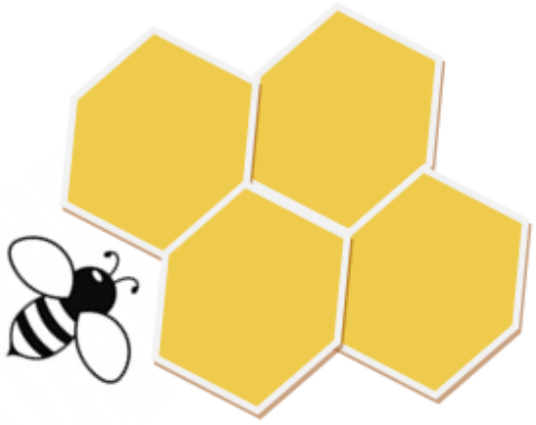


five-sided figure

VAAP Version

Hexagon

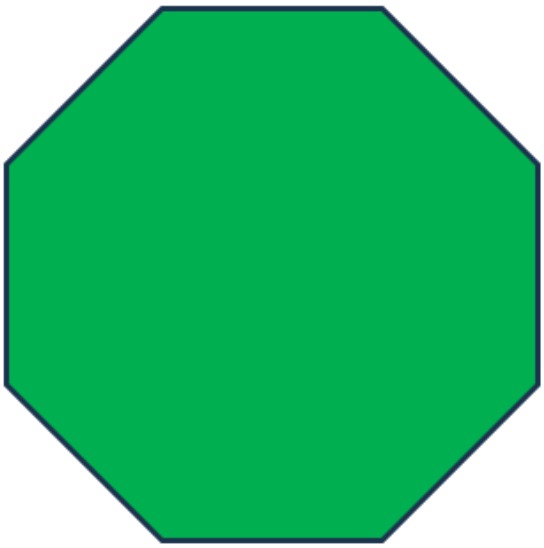




six-sided figure

VAAP Version

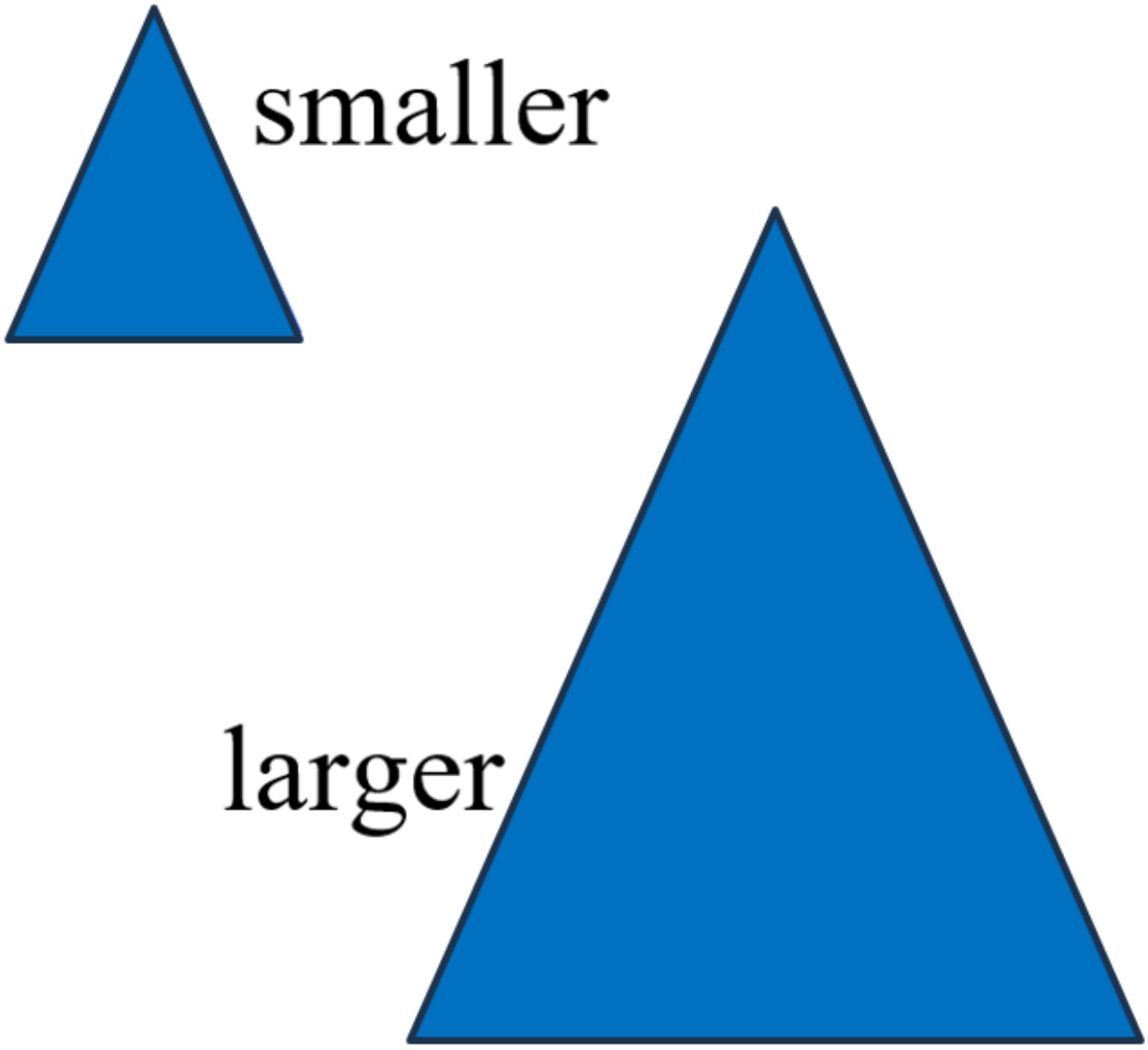
Octagon



eight-sided figure

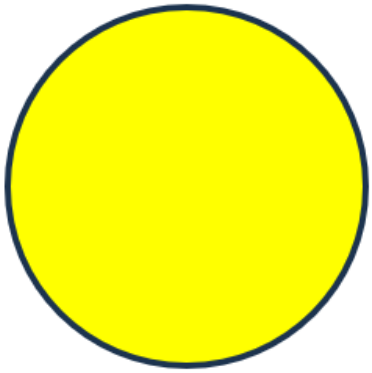
VAAP Version

Smaller/Larger

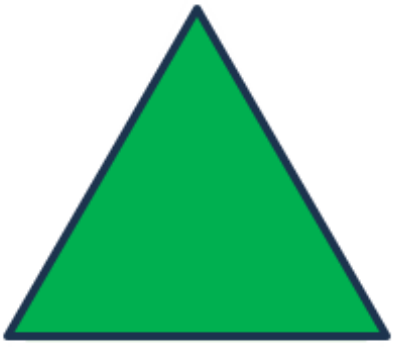


VAAP Version

Same



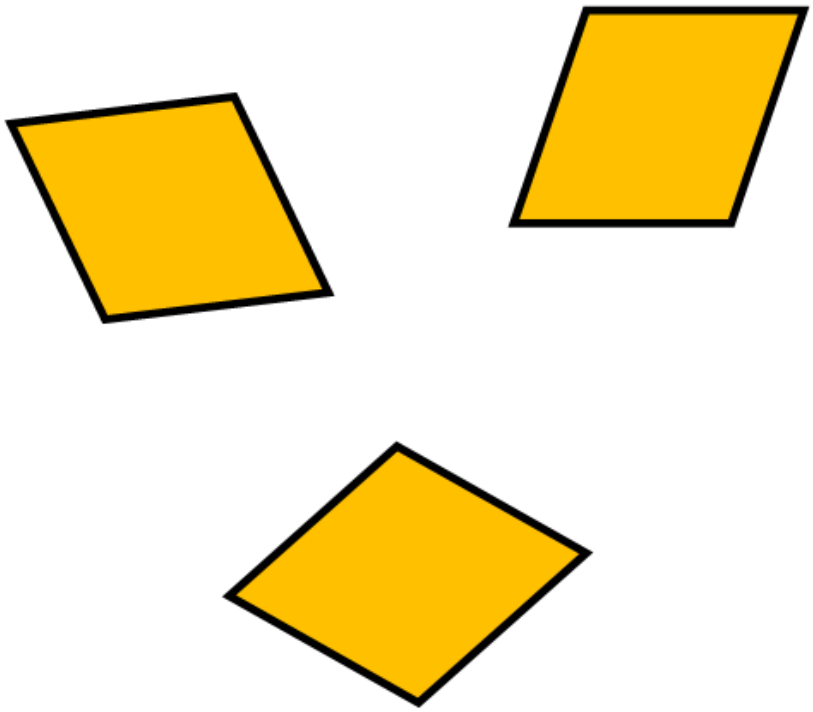
same shape



same color

VAAP Version

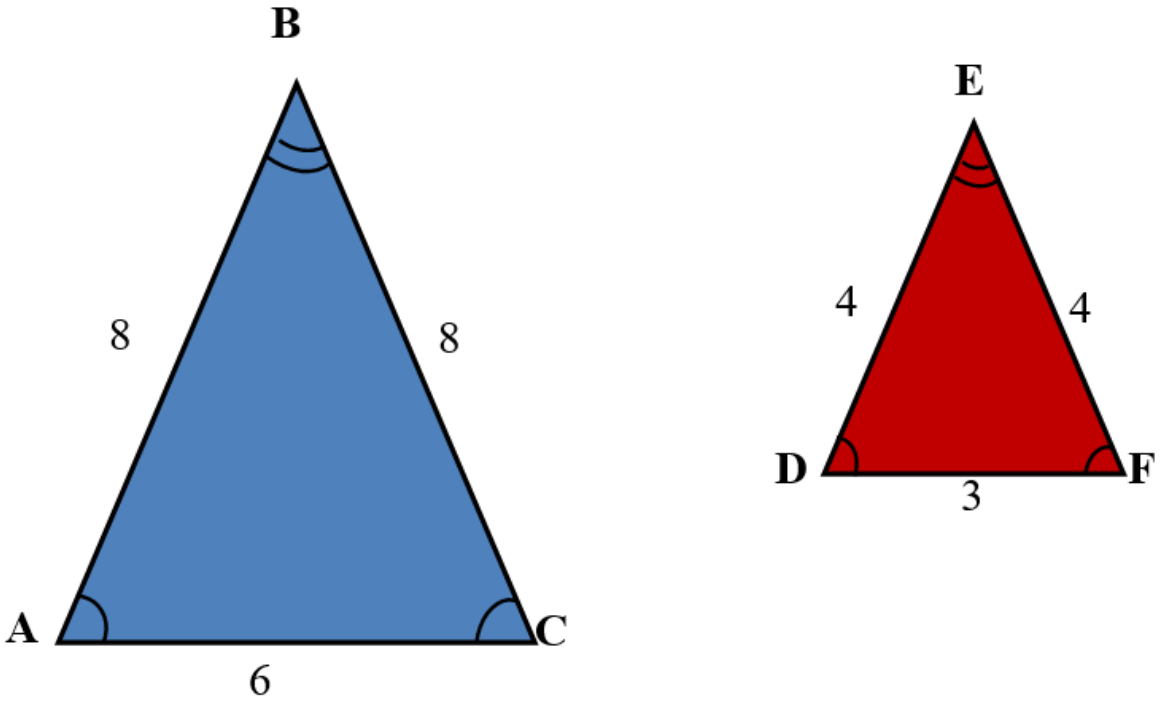
Congruent



same shape and size

VAAP Version

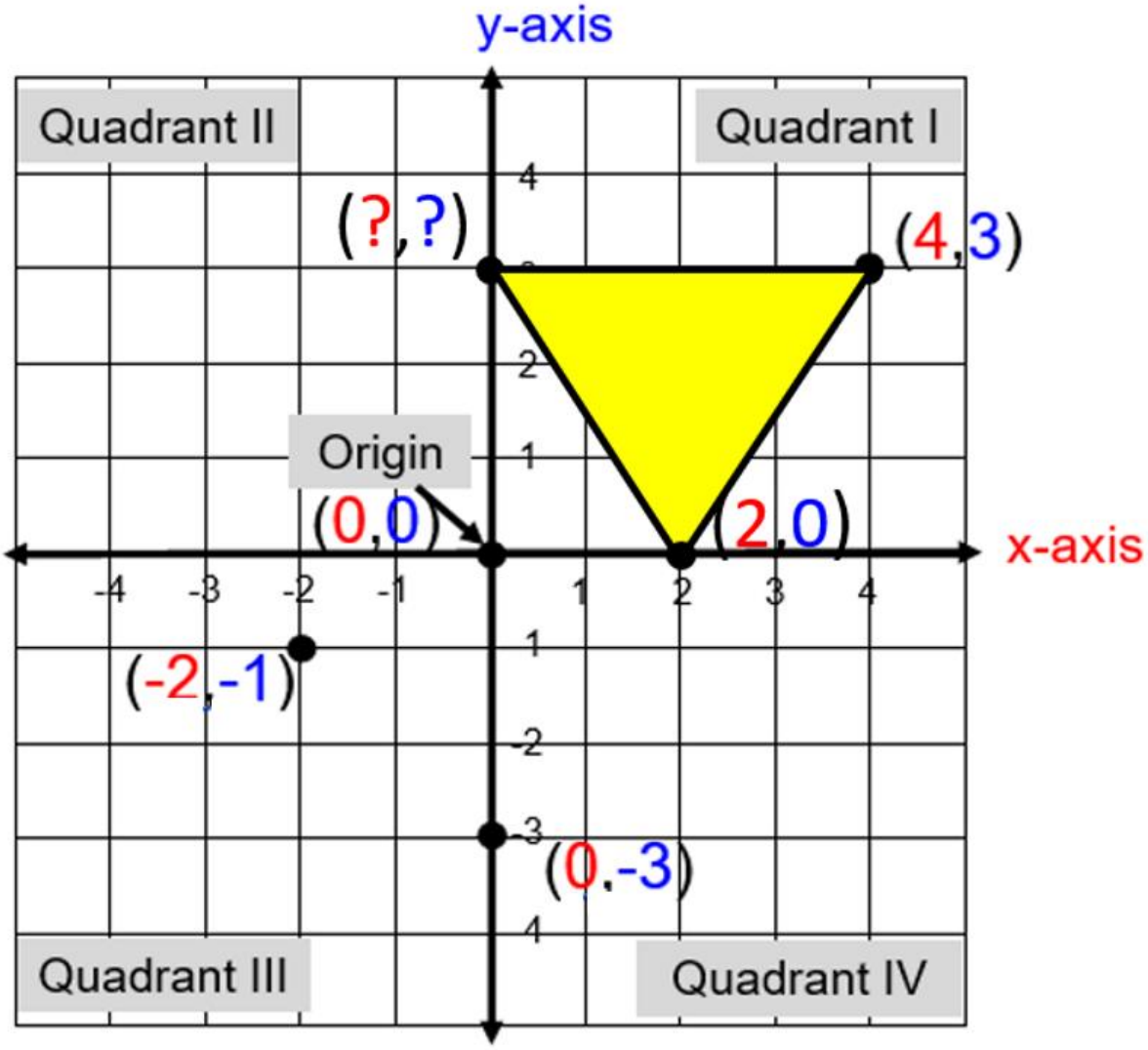
Similar Figures



△ABC
is similar to
△DEF

VAAP Version

Coordinate Plane

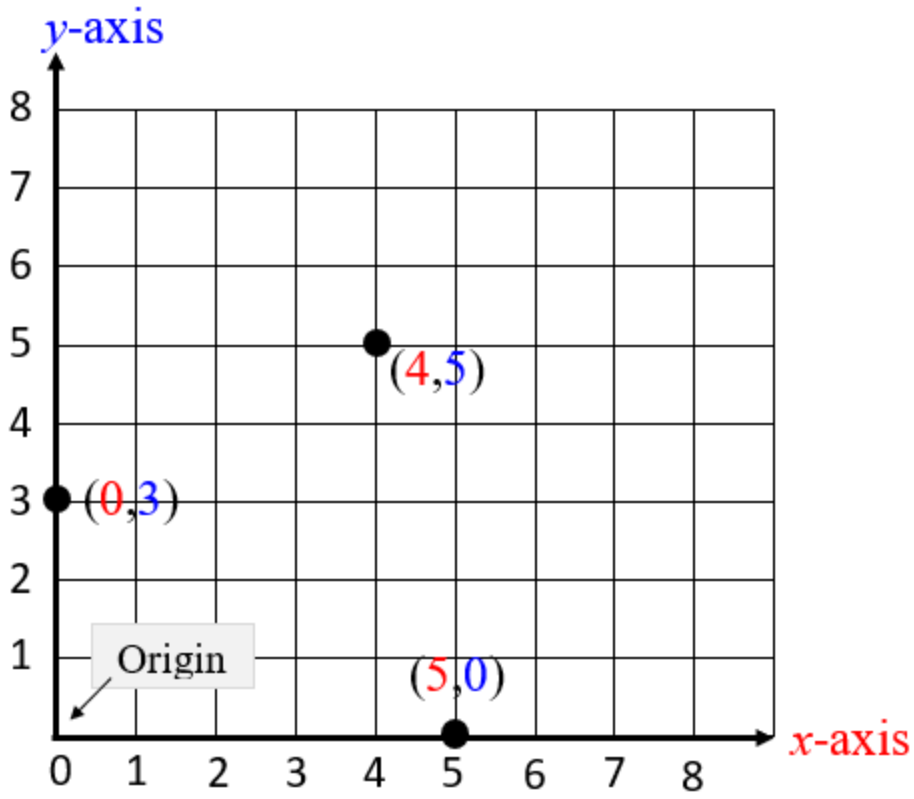


ordered pair (*x*,y)

VAAP Version

Coordinate Plane

(Quadrant I Only)

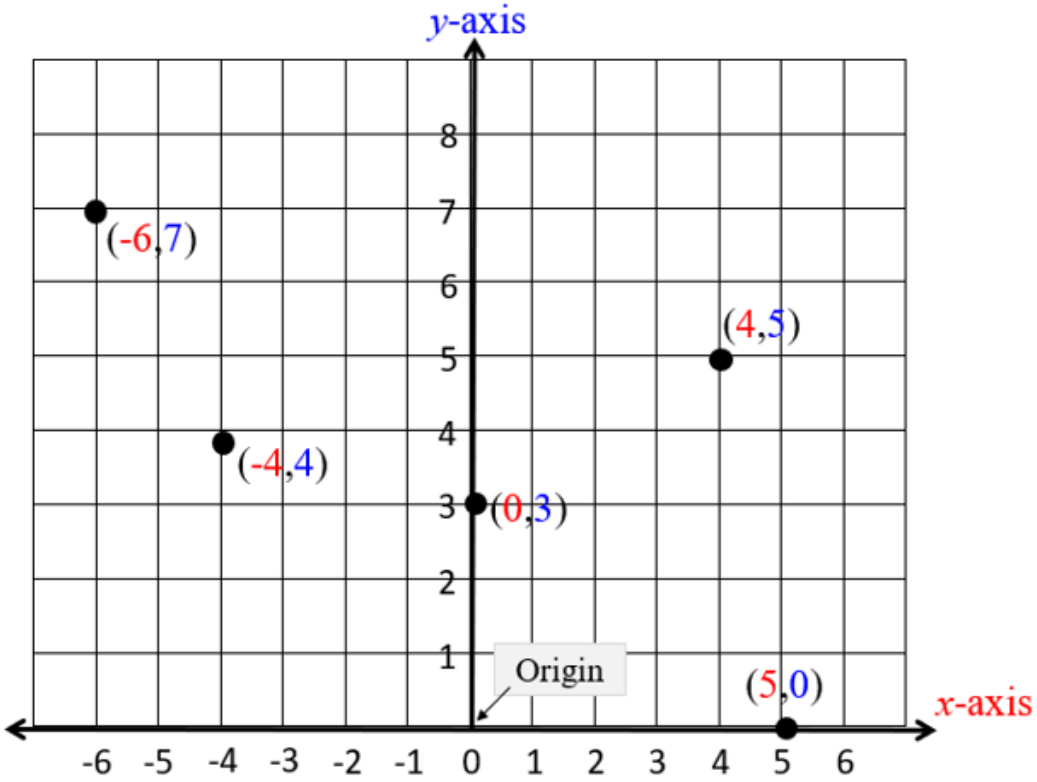


ordered pair (*x*,y)

VAAP Version

Coordinate Plane

(Quadrant I & II Only)



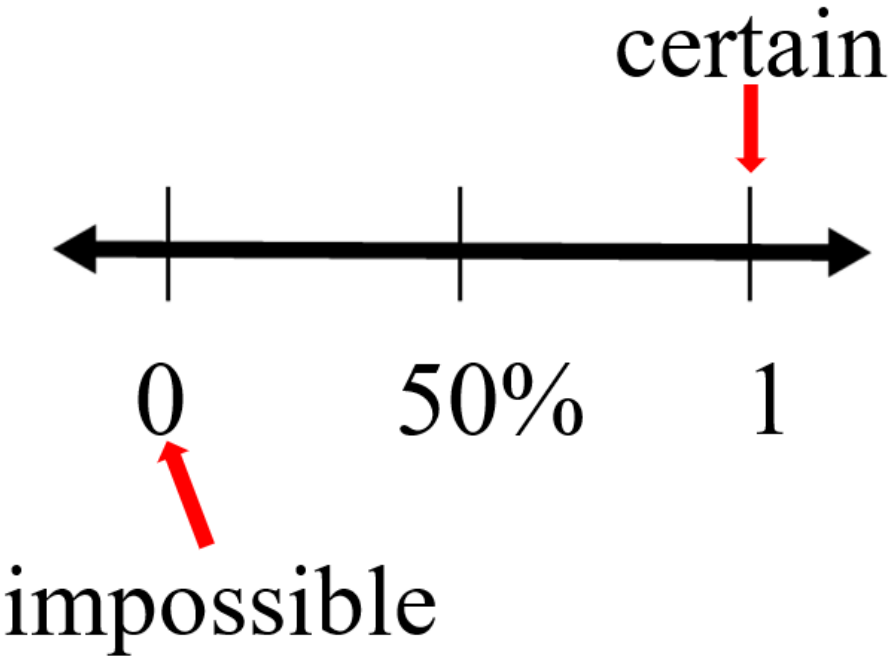
ordered pair (x,y)

VAAP Version

Probability and Statistics

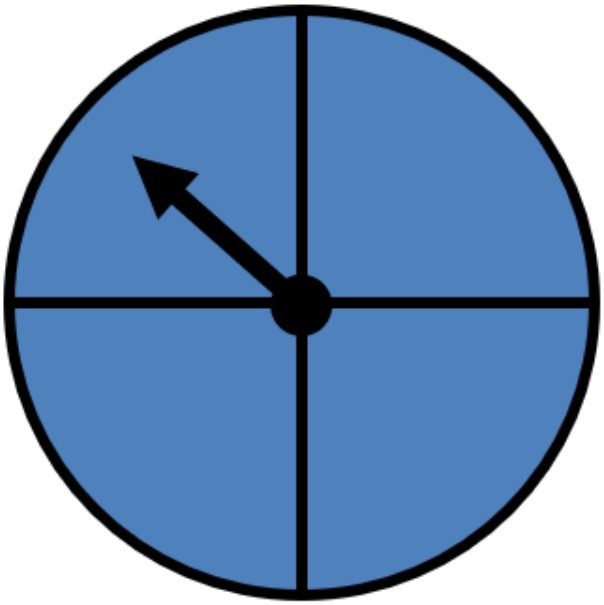
VAAP Version

Probability Number Line



VAAP Version

Certain

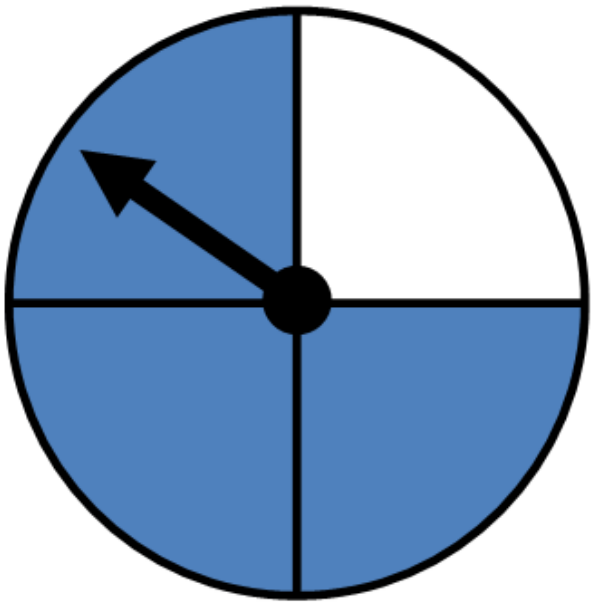


■ is certain

100% probability

VAAP Version

Likely

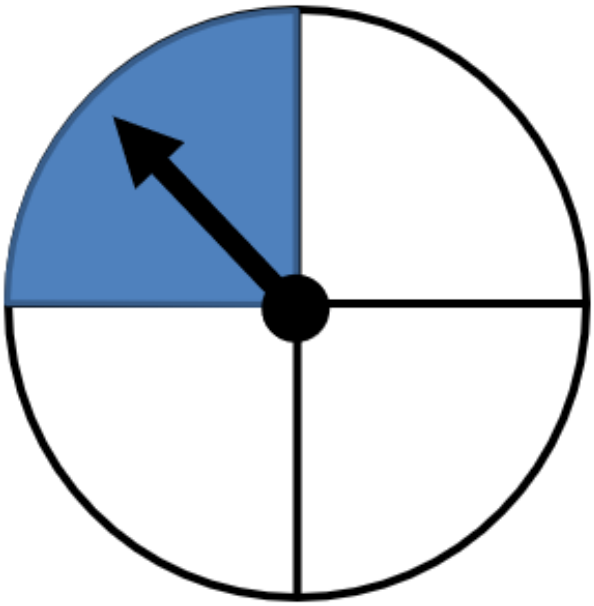


is likely

75% probability

VAAP Version

Unlikely

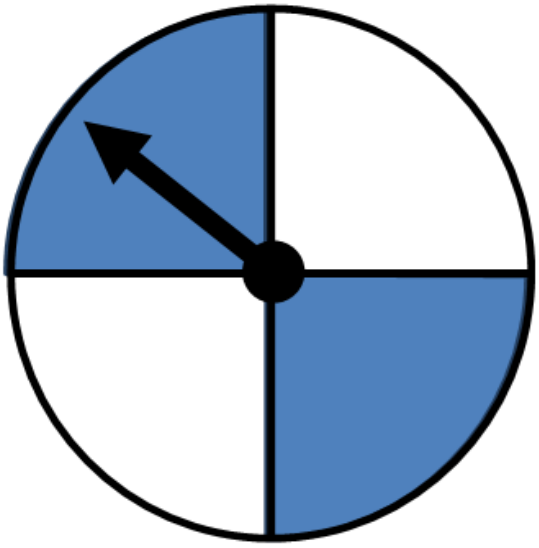


is unlikely

25% probability

VAAP Version

Equally likely

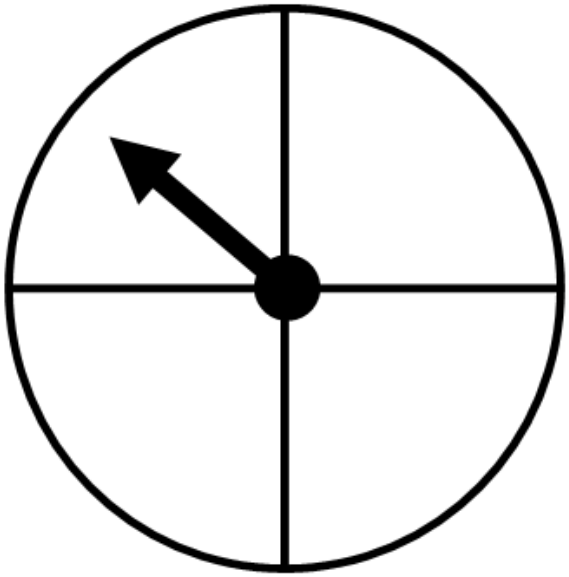


■ and □ are equally likely

50% probability

VAAP Version

Impossible



■ is impossible

0% probability

VAAP Version

Table

Pets

Animals	Number
Dogs	2
Cats	1
Birds	3
Lizards	1

VAAP Version

Picture Graph

Our Favorite Pets

Cat	Dog	Horse	Fish
			

VAAP Version

Pictograph

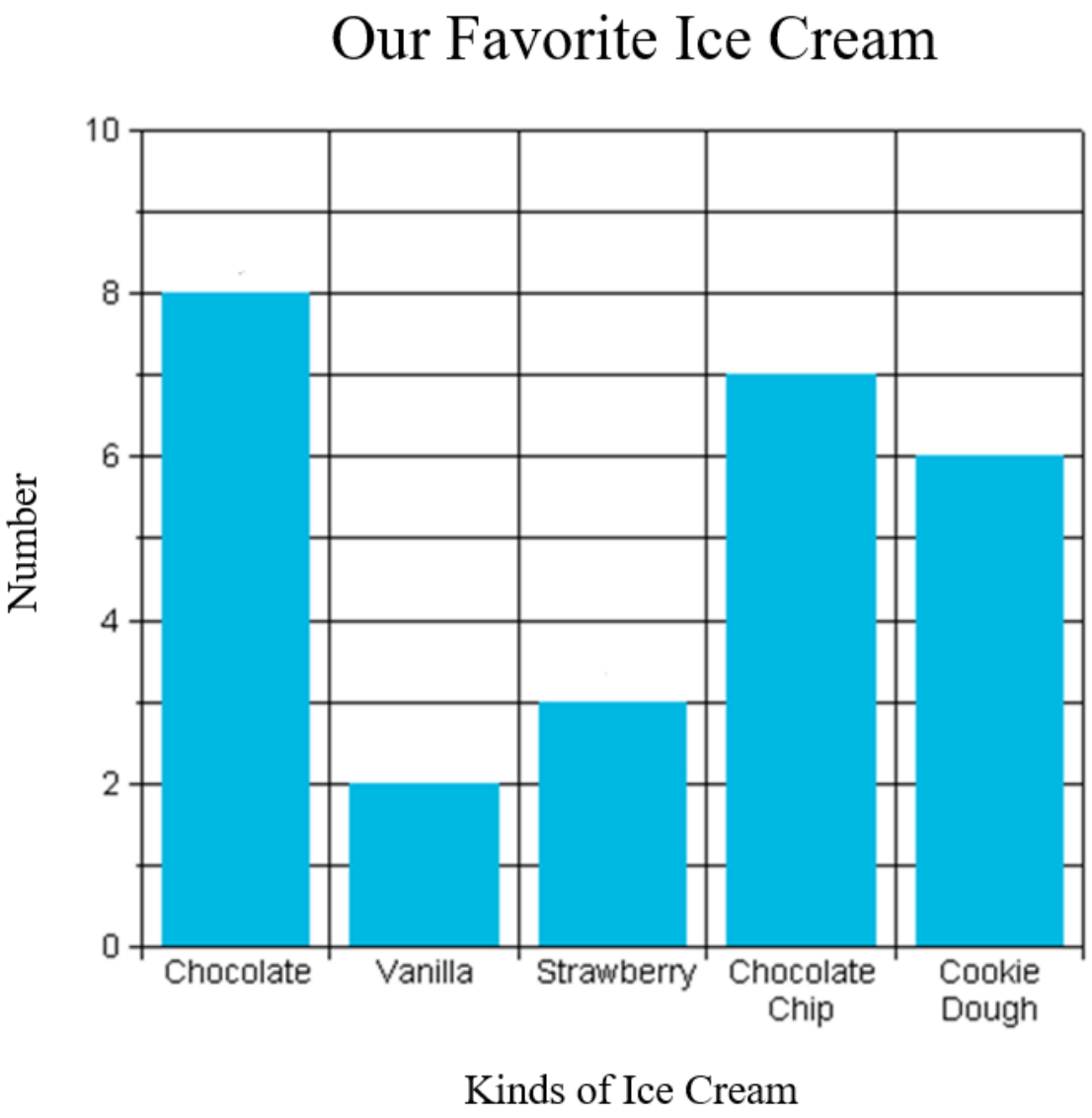
Our Favorite Pets

Cat	Dog	Horse	Fish
			

 = 1 student

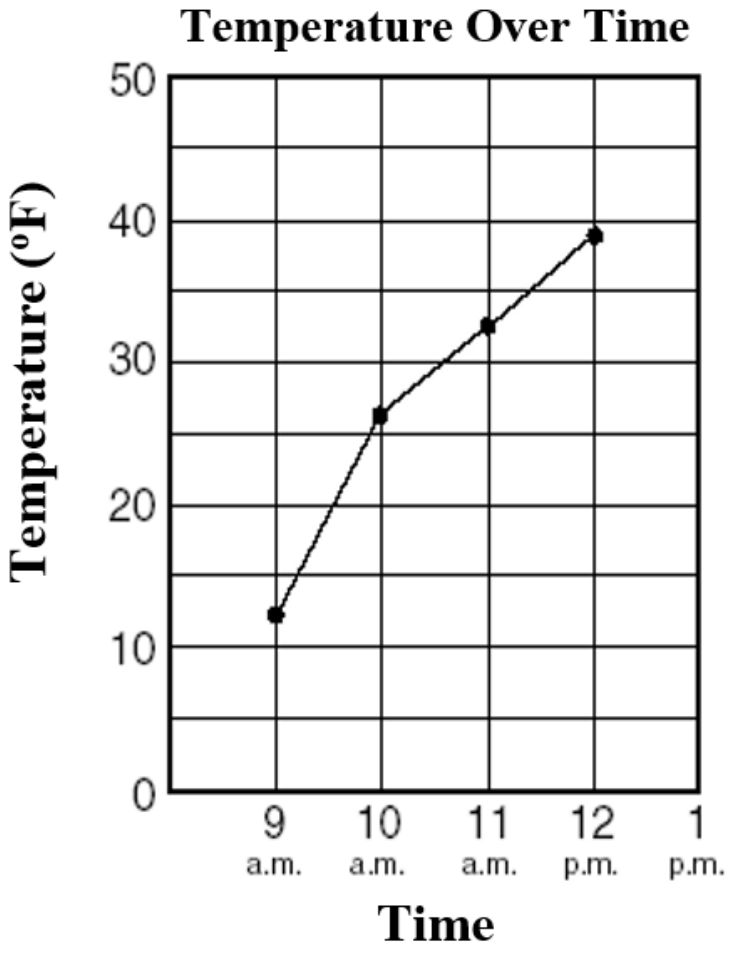
VAAP Version

Bar Graph



VAAP Version

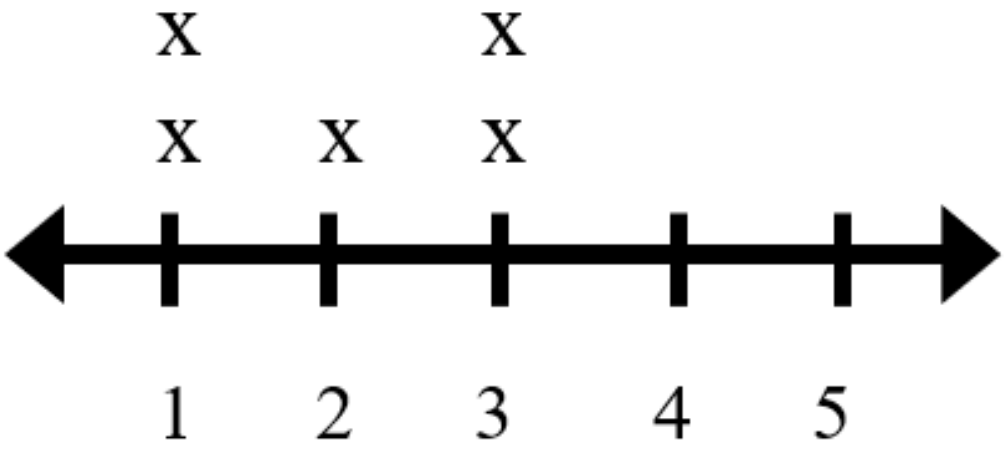
Line Graph



VAAP Version

Line Plot

Number of Pets

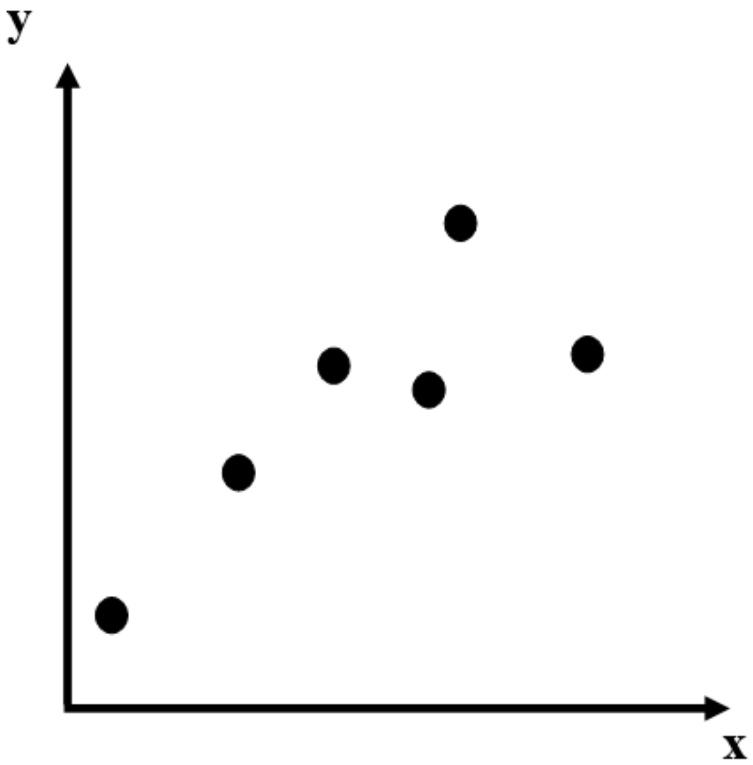


x represents 1 pet

VAAP Version

Scatterplot

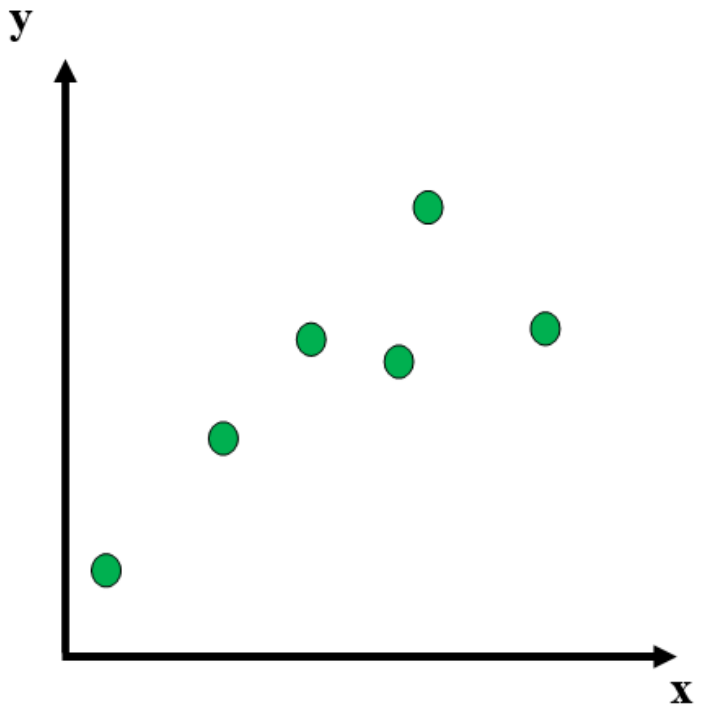
shows the relationship between two sets of data



VAAP Version

Positive Relationship

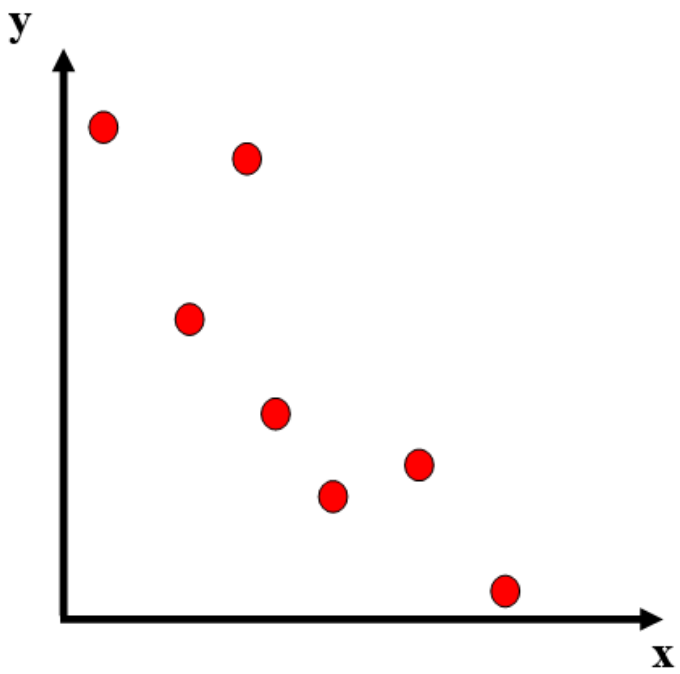
Points slope from lower left to upper right.



VAAP Version

Negative Relationship

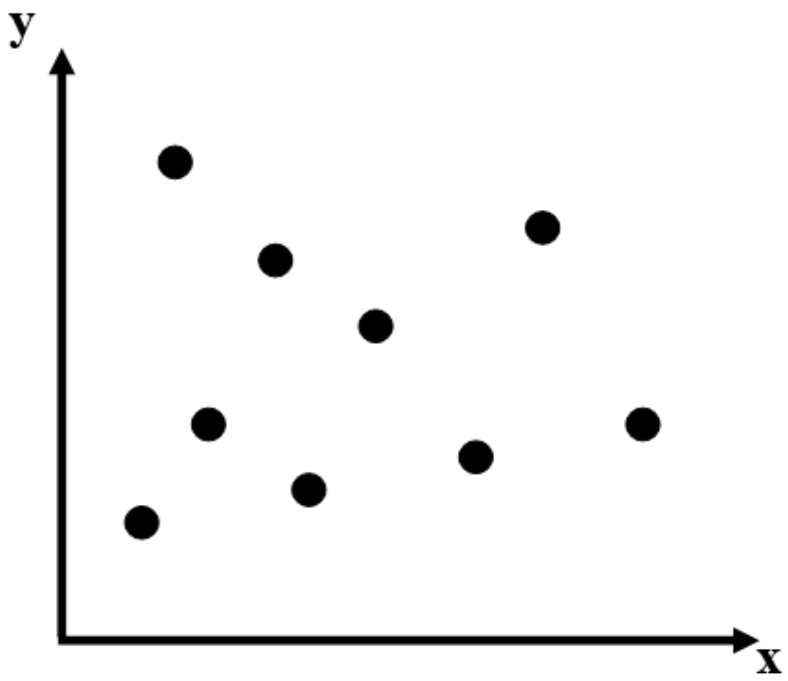
points slope from upper left to lower right



VAAP Version

No Relationship

No relationship exists

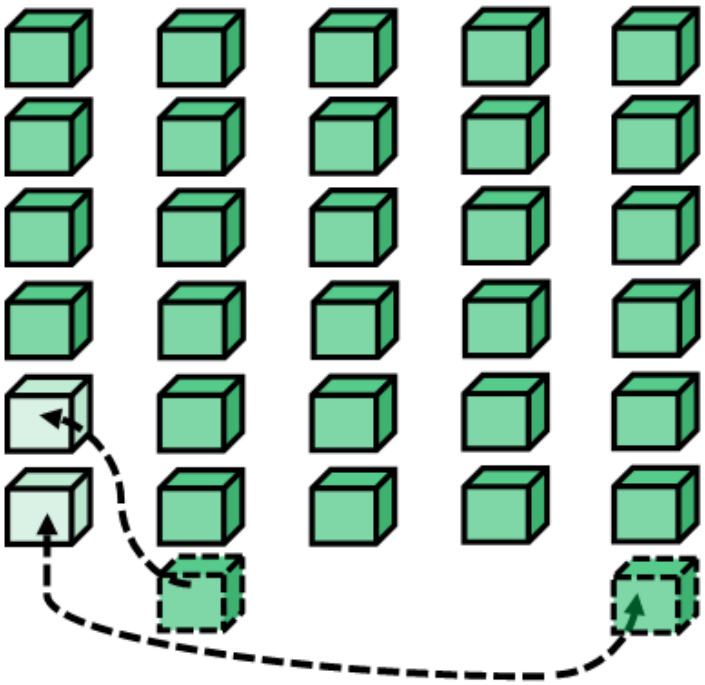


VAAP Version

Mean

fair share

4, 7, 6, 6, 7



the mean is 6

VAAP Version

Mean

fair share or
average

6, 9, 8, 8, 9

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

$40 \div 5 = 8$

mean = 8

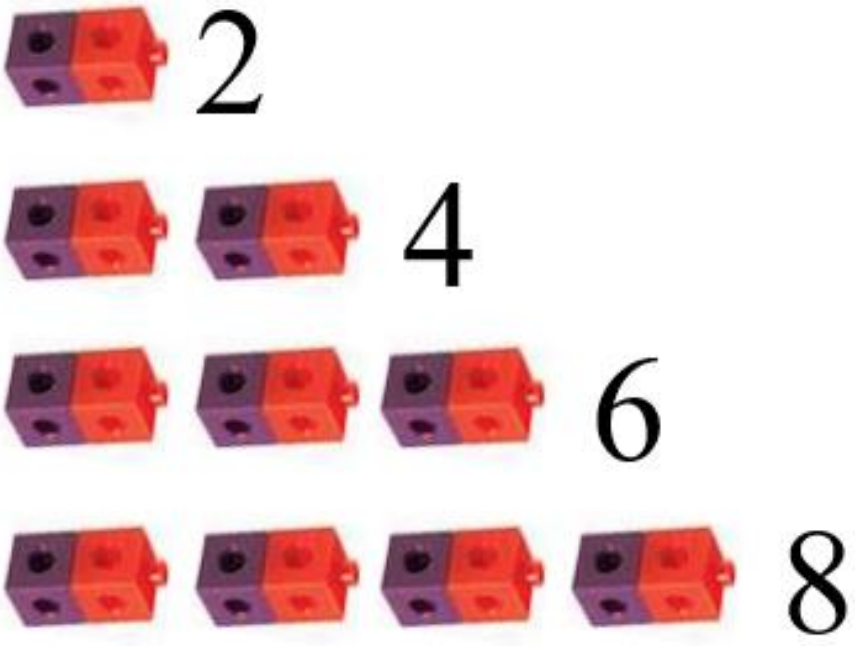
VAAP Version

Patterns, Functions and Algebra

VAAP Version

Counting by Twos

0



VAAP Version

Counting by Fives

0

 5

 10

 15

VAAP Version

Pattern

growing patterns

Input output table

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

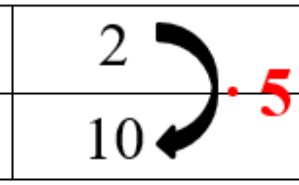
VAAP Version

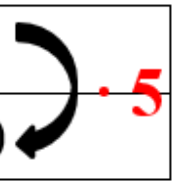
Proportional Relationship

Terry's neighbor pays him $10 for every 2 hours he works.

$$2 \cdot ? = 10$$

Hours	1	2	4
Pay in $	?	10	20





How much does Terry earn per hour?

$$\$1.00 \cdot 5 = \$5.00$$

VAAP Version

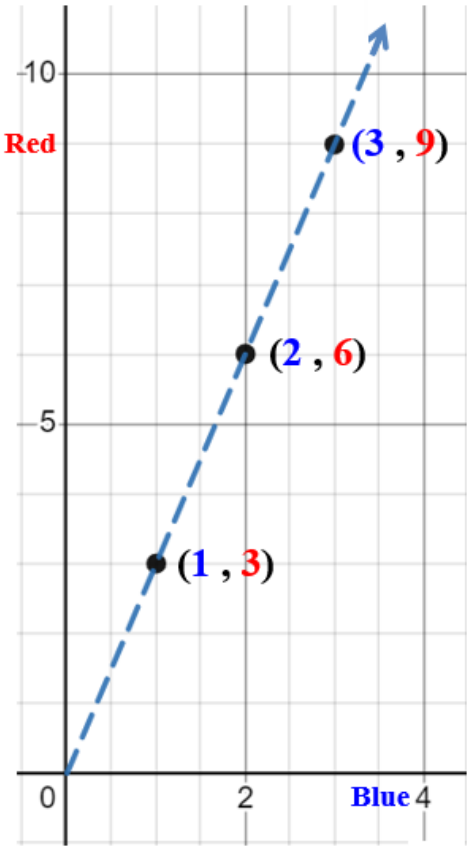
Terry earns $5.00 per hour

Connecting Representations

Table

blue	1	2	3
red	3	6	9

Graph

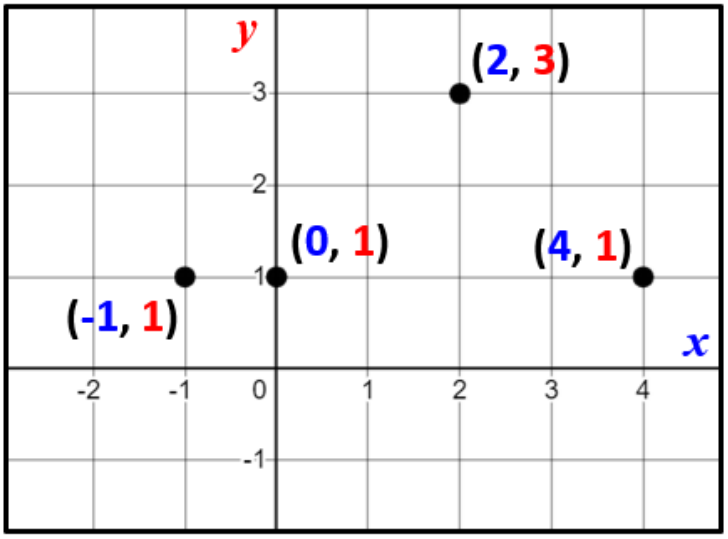


VAAP Version

Function

{(-1,1), (0,1), (2,3), (4,1)}

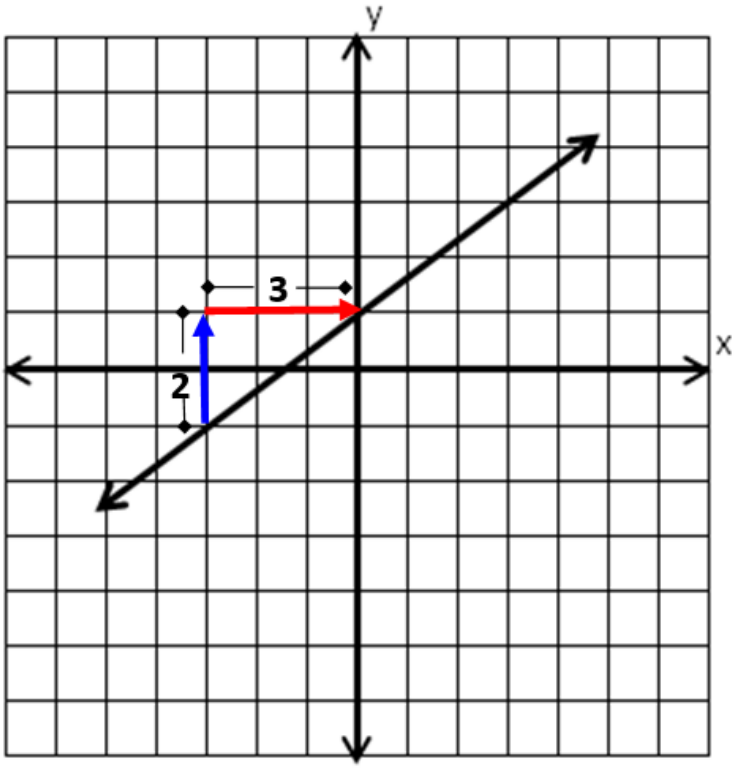
x	*y*
-1	1
0	1
2	3
4	1



VAAP Version

Slope

rate of change or
the "steepness" of the line

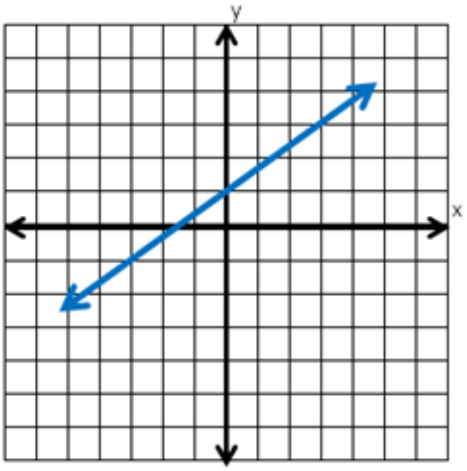


$$\text{Slope} = \frac{2}{3}$$

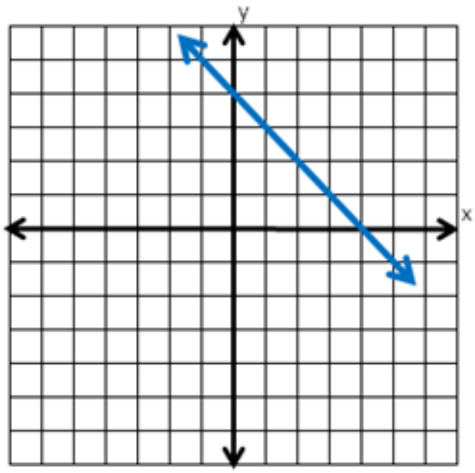
$$\text{slope} = \frac{\textit{change in } y}{\textit{change in } x} = \frac{\textit{vertical change}}{\textit{horizontal change}}$$

VAAP Version

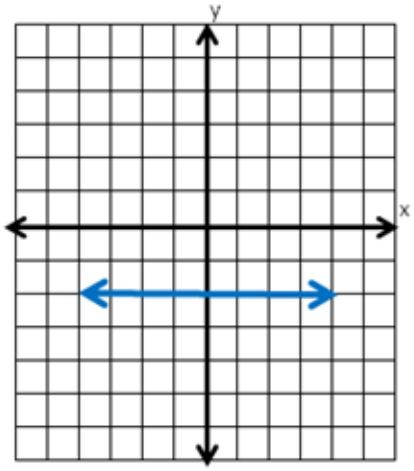
Slope



positive slope



negative slope



zero slope

VAAP Version

Equation
(Number Sentence)

$8 = 3 + 5$

$6 - 2 = 4$

$75 = 50 + 25$

VAAP Version

Expression

a representation of a quantity

12.8

14×351

$45 \div 8$

VAAP Version

Variable

a symbol used to represent an unknown quantity

y

$3 + x = 2.08$

$A = \pi r^2$

VAAP Version

Variable Expression

an expression that contains numbers, operations, and variables

$4 + s$

variable

VAAP Version

Term

$\underbrace{3x} + \underbrace{2y} - \underbrace{8}$

3 terms

$\underbrace{-5x} + \underbrace{(-2)}$

2 terms

$\underbrace{7a}$

1 term

VAAP Version

Constant

$4p - 12$

$7 + x - 6x$

VAAP Version

Like Terms

$4x - 3y + 6x - 7$

$2y - 3 + 7y$

$-5r - 6 + 2r + 2$

VAAP Version

Verbal to Algebraic

Verbal	Algebraic
A number multiplied by 5	$5n$
The sum of four and a number	$4 + n$
The sum of a number and two is five	$y + 2 = 5$
Eighteen is three times a number	$18 = 3x$

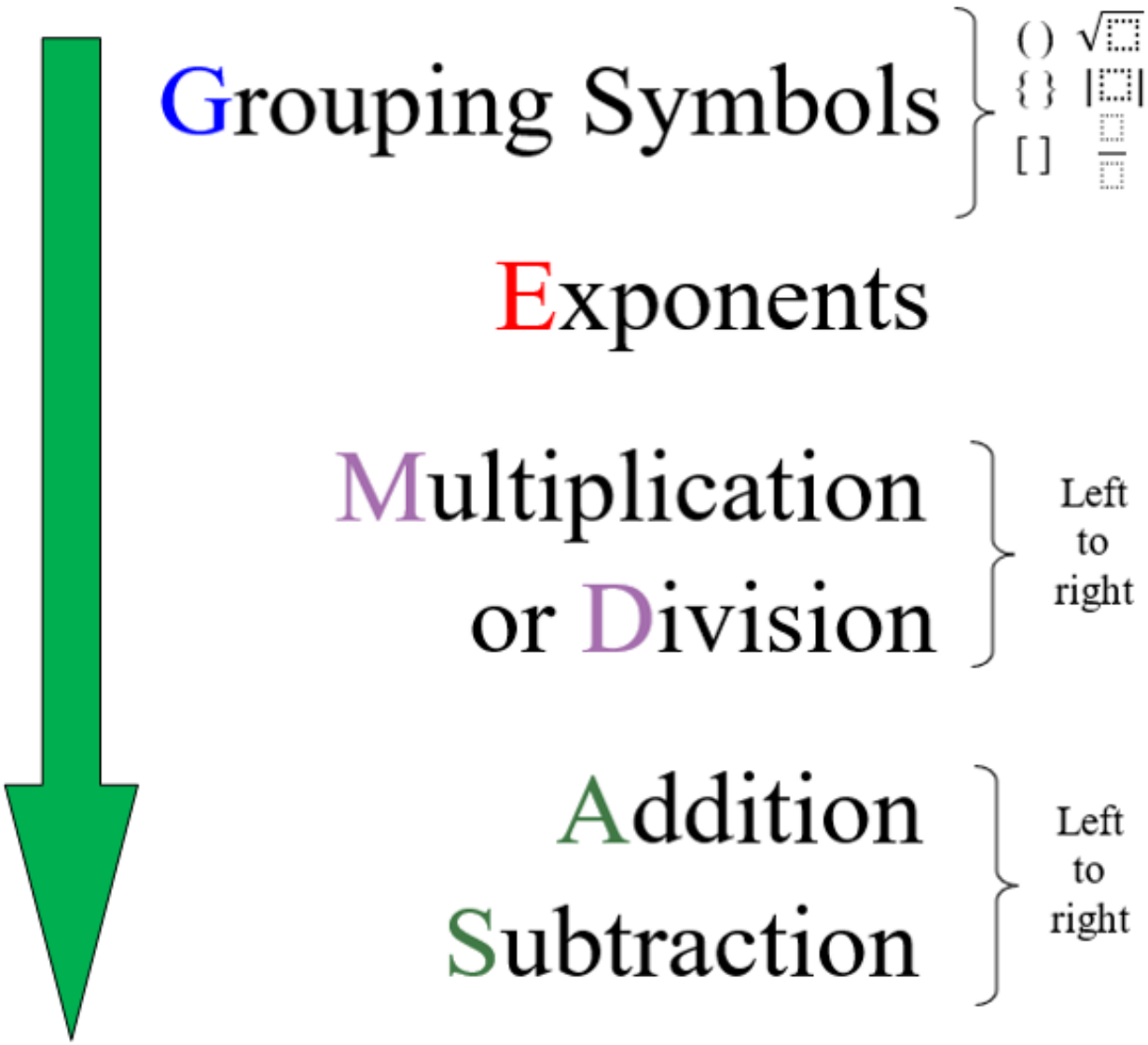
VAAP Version

Verbal to Algebraic

Verbal	Algebraic
A number multiplied by 5	$5n$
The sum of negative two and a number	$-2 + n$
The sum of a number and two is five	$y + 2 = 5$
Negative thirty-six is nine times a number	$-36 = 9x$

VAAP Version

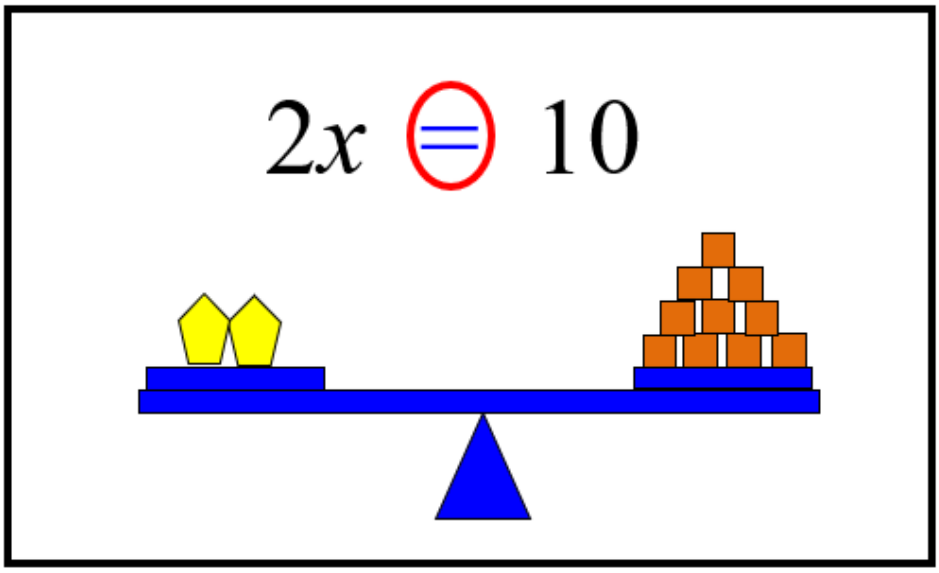
Order of Operations



VAAP Version

Equation

a mathematical sentence stating that two expressions are equal



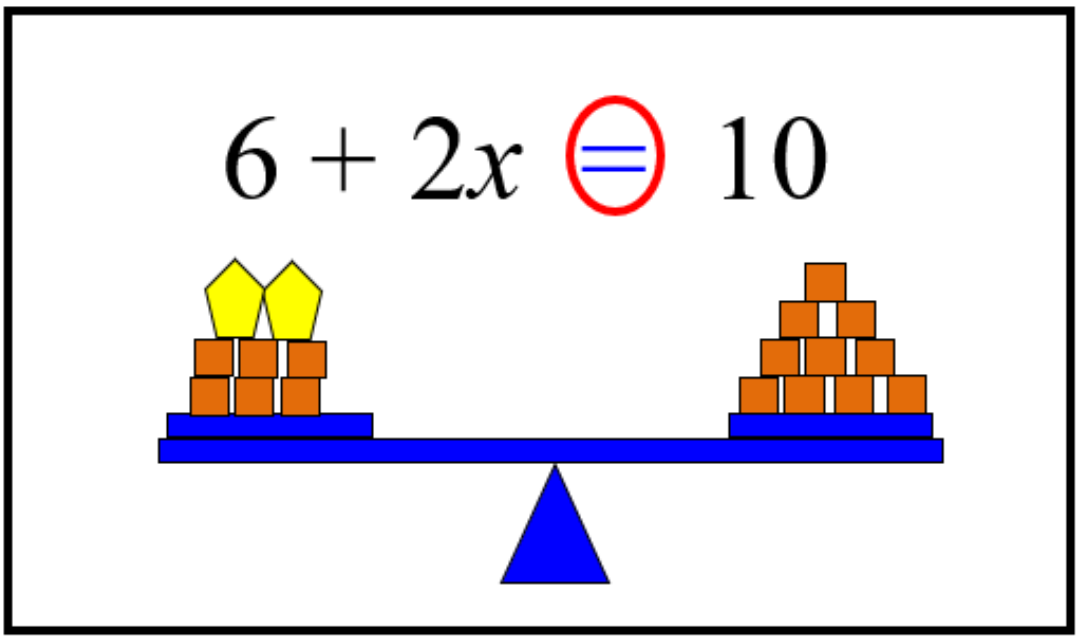
$-38 = y + 21$

$8x = -16$

VAAP Version

Equation

a mathematical sentence stating that two expressions are equal



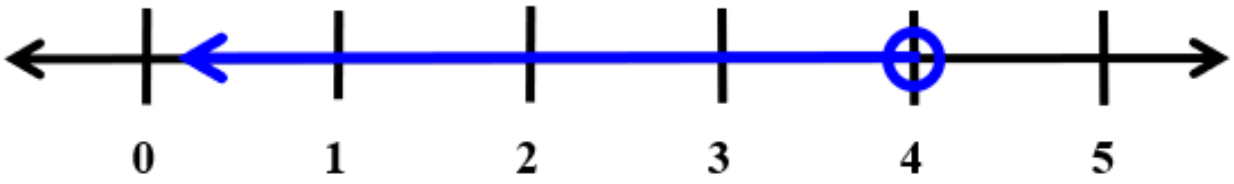
$-12 = 2n - 2$

$3j + (-5) = 1$

VAAP Version

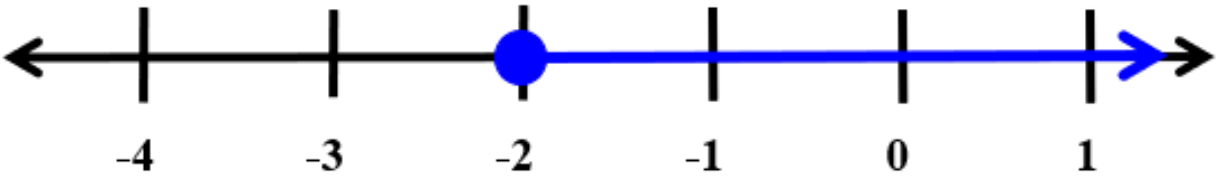
Inequality

$y < 4$ or $4 > y$



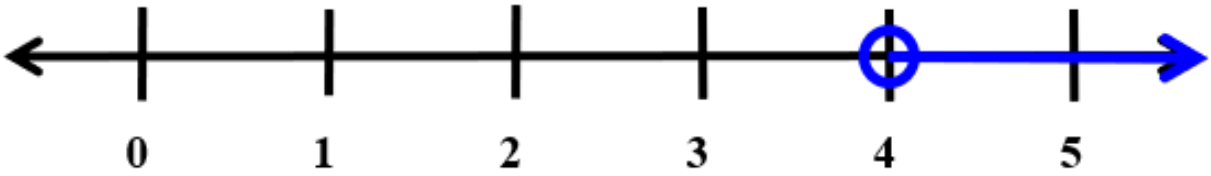
$x + (-5) \geq -7$

$x \geq -2$



$-3 < a - 7$

$4 < a$ or $a > 4$



VAAP Version

Sales Tax

Shirt:	$12.00
Pants:	$20.00
Subtotal:	$32.00
Tax:	$1.76
Total:	$33.76

Subtotal: add item prices

12.00 + 20.00 = 32.00

Total: add subtotal and tax

32.00 + 1.76 = 33.76