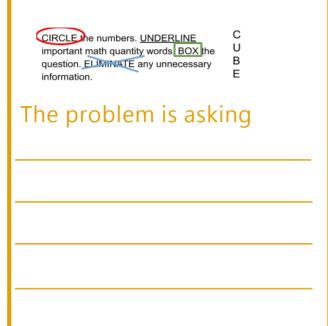
USER Problem Solving

1				ta		
	n		rc	ΤЭ	n	
U		u	J	La		u



Strategy

	steps you will take.
Then,	
Finally,	

Execute

Show your work using numbers, diagrams, and formulas.

Review the Results

- ☐ I used the substitution method to check if it is correct.
- ☐ I checked the operations and signs.
- ☐ The answer matches the context of the problem.

My answer makes sense because _____

Understanding Word **Problems**

Samuel started with 5 carrots. Samuel's dad gave Samuel 3 more carrots. Samuel ate two carrots. Samuel also had six peas. How many carrots does Samuel have left?

QUESTION ASKS

- Quantity
- Addition
- Subtraction
- Multiplication
- Division
- Equivalent numbers
- Measurement
- Length or distance
- Perimeter
- Area
- Angle measurement
- Linear
- Slope **Initial Value** (y-intercept)
 - Distance
- Exponential
 - minimum

distance

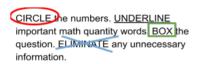
Ouadratic

- initial value maximum rate of decay •
- Quantity at rate of growth • x time or
- Quantity at x time or distance

ANNOTATE THE PROBLEM

С

В



Samuel started with 5 carrots. Samuel's dad gave Samuel 3 more carrots. Samuel ateltwo carrots. Samuel also had six peas. How many carrots does Samuel have left?

CREATE AN INFORMATION CHART WITH KNOWNS AND UNKNOWNS

You will want to organize your data gathering tool or chart according to the type of problem.

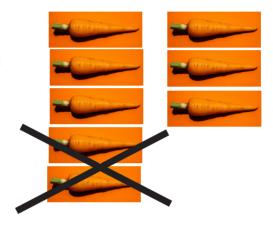
х	у	Diagram part	Measurement

	# or Variable	Meaning in Context	Associated mathematical operation or language
5		carrots to start	
3		more carrots	+ addition
2		carrots eaten	- subtraction
Х		carrots left	result

Creating a Strategy

VISUALIZE

Use the chart of knowns to visualize what you see.



DESCRIBE

Describe what you visualize happening in simple phrases.

5 carrots and 3 more take away 2 carrots

TRANSLATE

Substitute the words for numbers, variables, and mathematical terms. Use the mathematical quantities chart to support you.

5 + 3 - 2 = X

Addition

6 + 2

- and
- plus
- also
- in addition to
- combined
- sum
- total
- more than
- increased by

Subtraction

6-2

- decreased by
- fewer
- left
- los
- remaining
- minus

Multiplication

6 x 2

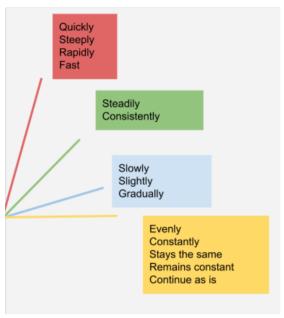
- of
- by
- per
- each
- times
- rate
- every
- total

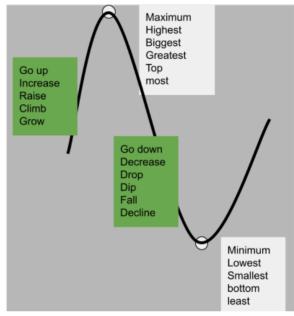
Division

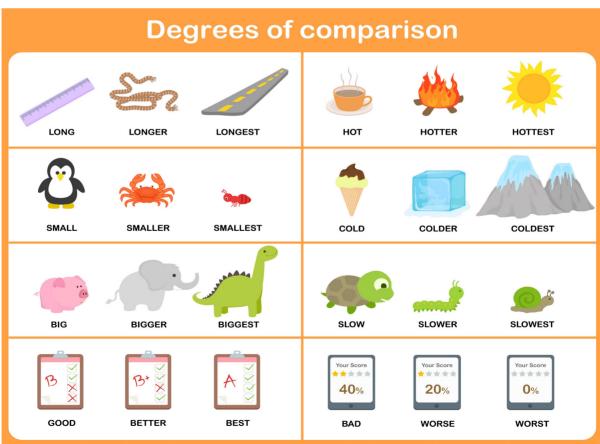
6:2

- into
- amount of each
- equal parts
- split up
- per
- out of
- each
- every

Describing Patterns







Comparing Quantities



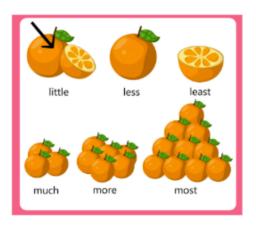


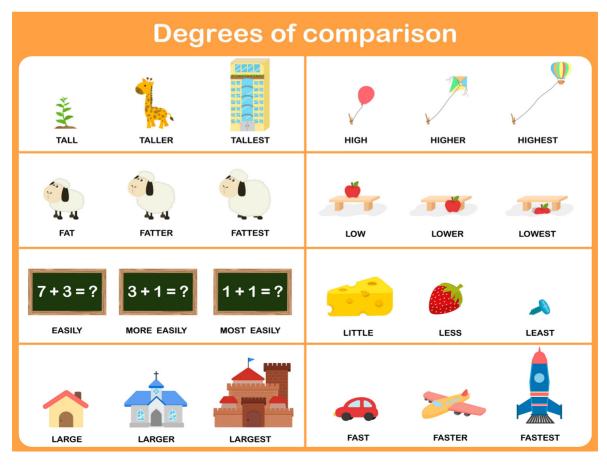


- > greater than
- ≥ greater than or equal to
- < less than
- ≤ less than or equal to

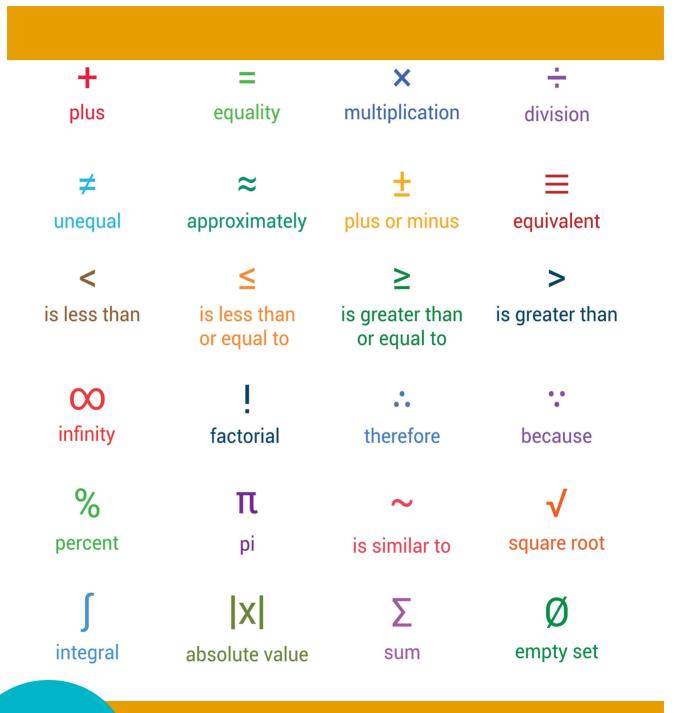
Increase 7

Decrease





Operations



Addition

6+2

- and
- plus
- also
- in addition to
- combined
- sum
- total
- more than
- increased by

Multiplication

6 x 2

- of
- by
- per
- each
- times
- rate
- every
- total

Subtraction

6 - 2

- decreased by
- fewer
- left
- less
- remaining
- minus

Division

6:2

- into
- amount of each
- equal parts
- split up
- per
- out of
- each
- every