

KATHY TIPTON

CAMT 2023

Spiraling to Success

Let's Talk Math: Having the Words to Talk the Talk

Learning how to learn...for math and for life.

- Mocapulary
- Having the words to "talk the talk"....developing useful vocabulary.

- Mall Mork
- Having the moves to "walk the walk"...active engagement and
 - accountability.
- cnirals
 - Having the questions to "think great thoughts"...one more round.

Spiraling to Success: having the words to "talk the talk"



Why academic content vocabulary?

"The sum of three consecutive even whole numbers equals the product of the cube root of twenty-seven and the second number. What are the three numbers?"

«Το άθροισμα τριών διαδοχικών ζυγών ακέραιων αριθμών ισούται με το γινόμενο της κυβικής ρίζας του είκοσι επτά και του δεύτερου αριθμού. Ποιοι είναι οι τρεις αριθμοί;»



What doesn't work....

Mean:

the value obtained by dividing the sum of several quantities by their number

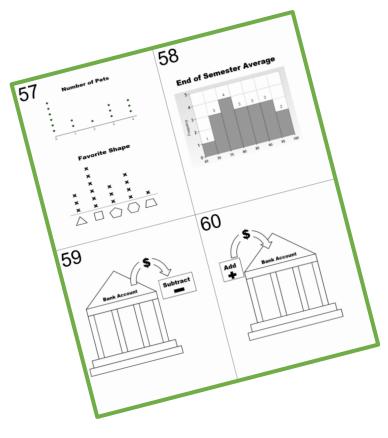
- Doing nothing
- Just "telling"
- Pure definitions
- Punitive vocabulary
- Biting off too much

What does work....



- Start the year with intent.
- Have a reasonable plan.
- Hold yourself accountable.
- Work the plan.
- Celebrate small victories.

The Plan.... • Visual examples



- Four words per week
- Complete in the first semester
- Varied, daily practice
- Accountability

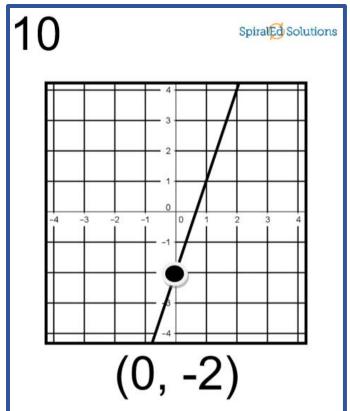
48 The length of an edge of a polygon, used to find the area.

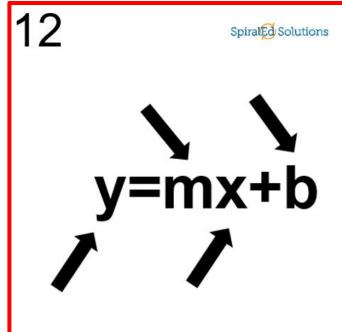
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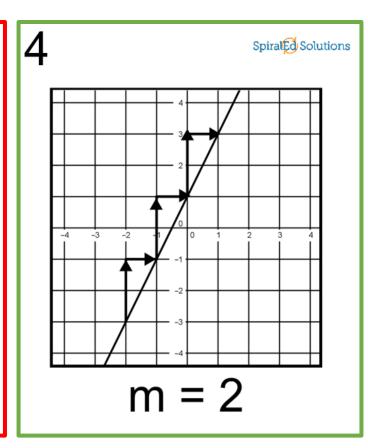
The area of one face of a prism, used to find the volume.

51 #1 order numbers #2 find the middle 5, 2, 3, 4, 6 2, 3, 4, 5, 6

a measure of center









SpiralEd Solutions Vocabulary Cards Directions

- Prepare a set of cards for each student. This can be done on cardstock, colored paper, or plain paper; or have a class set of cards with enough cards for each pair of students to work. Sets can be reused each year.
- Distribute and introduce 4 cards each week. This will facilitate introduction of the entire deck the first semester of school.
- Have students write the information listed below on the back of the appropriate card
- Have students interact with cards for a few minutes each day. Vary activities, teaching students how best to benefit from vocabulary cards. With only four new cards a week, students are not overwhelmed.
- Test student progress every few weeks. Students must understand that as the deck grows, they are responsible for all words to date.
- Play games with the cards. Make the experience as fun and positive as possible.
- Acknowledge students who use vocabulary from the cards in classroom conversations.
- The cards may not follow a particular Grade 6 scope and sequence. They are somewhat random. This is intentional. Students are not learning vocabulary for a given unit, but for Grade 6 math in general. Frontloading future vocabulary helps students master new concepts more quickly.

Card 1 whole numbers

Card 2 integers

Card 3 rational numbers

Card 4 a. sum; b. difference; c. product; d. quotient

Card 5 multiplication and division inverse

Card 6 fraction format; "doghouse"; primary division sign

Card 7 absolute value

Card 8 inverse

Card 9 factor

Card 10 prime factorization

Card 11 numerator; denominator

Card 12 a. proper: b. improper: c. mixed number

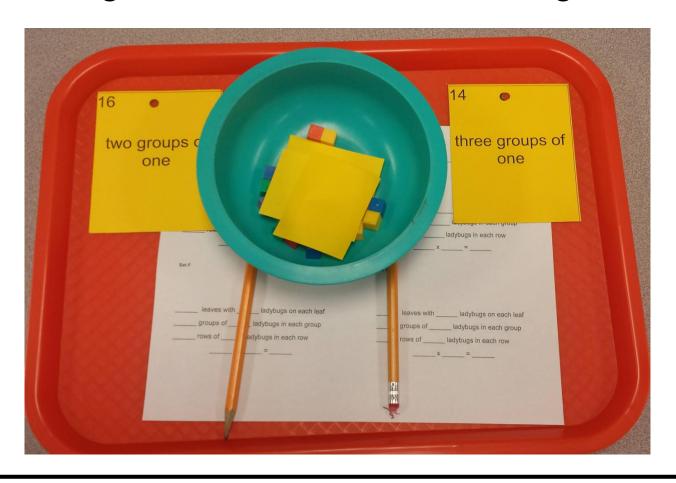
Card 13 increase

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Teacher File

Student management....

Card management....

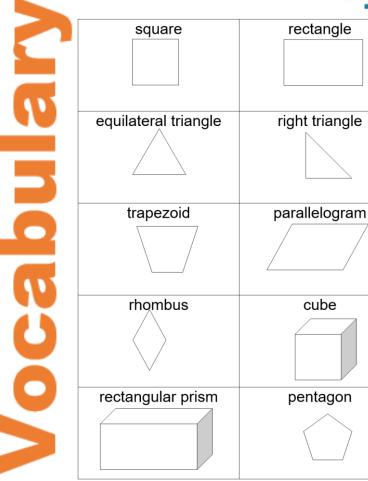


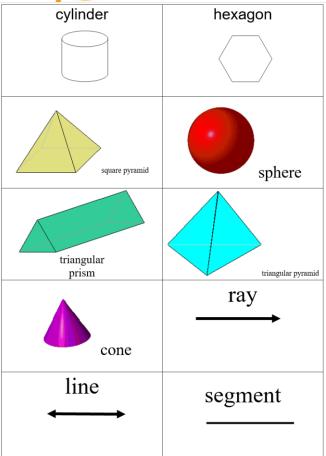
Have fun....





- Using flash cards
- Back Talk
- Table work
- One Up
- Strong questions
- Flyswatter
- What's the question?
- Know the difference
- Bingo
- Wall Work
- 20 Questions





acute angle	obtuse angle
right angle	parallel lines
1	← →
perpendicular lines	intersecting lines
obtuse triangle	
	octagon
translation	reflection

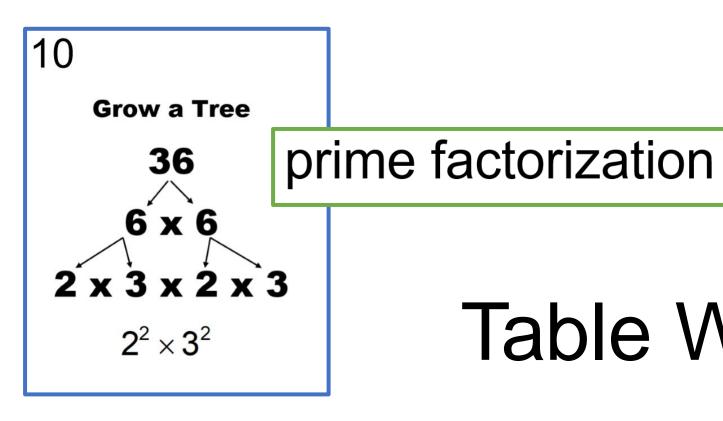


Table Work

prime factorization

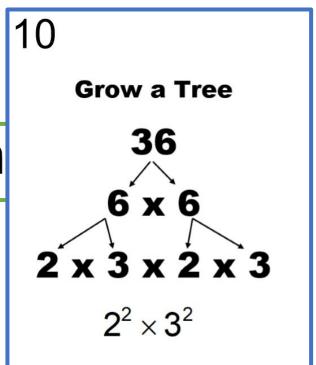
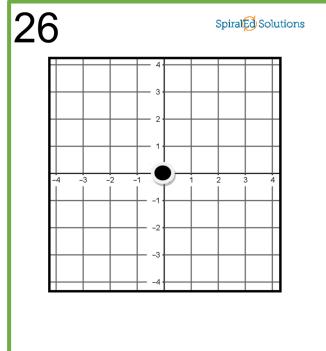
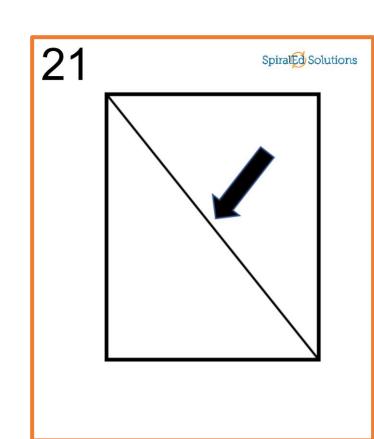
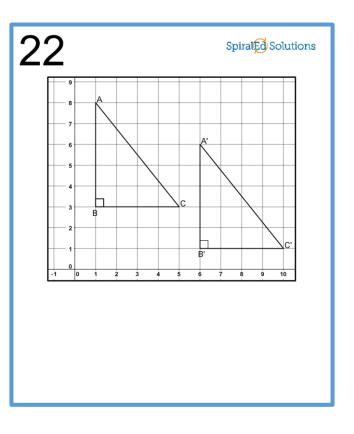


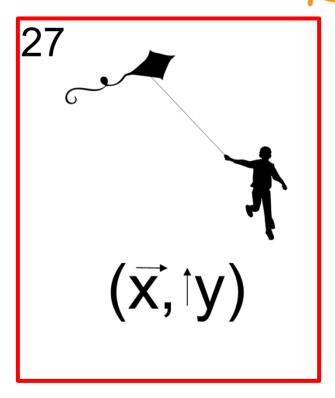
Table Work Reversed

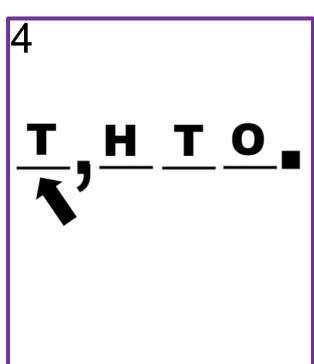






One Up



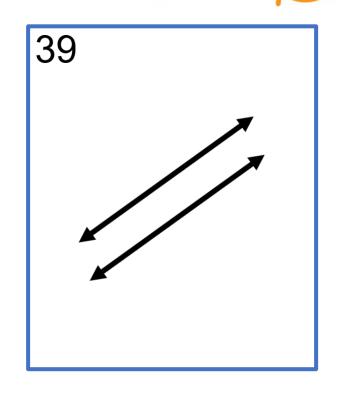


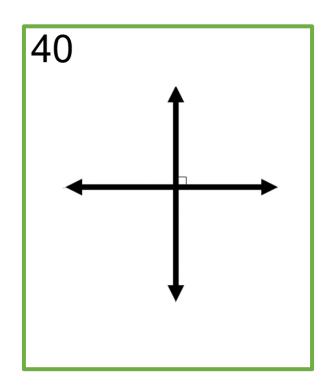
What's the question?

less than even dozen trapezoid rhombus greater than odd

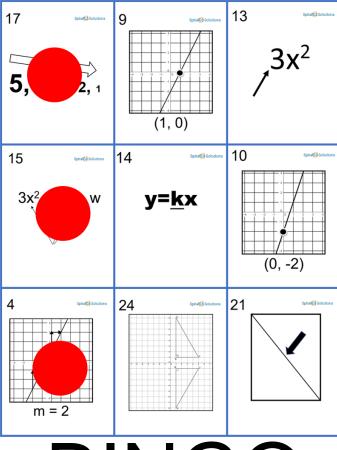
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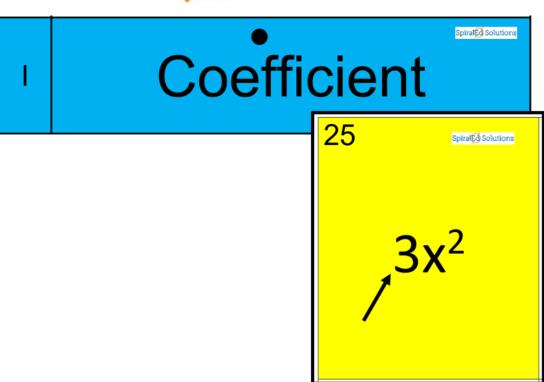




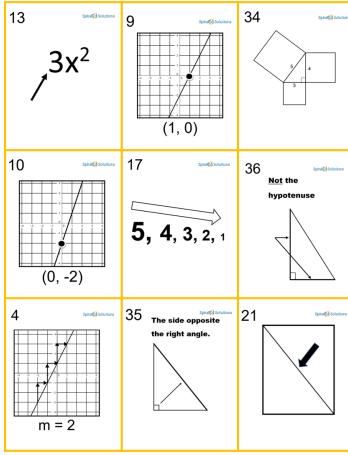
Know the Difference



BINGO



Wall Work

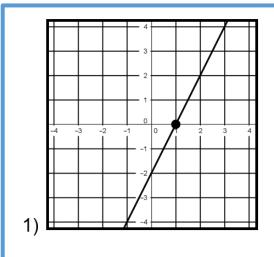


Twenty Questions

Accountability....

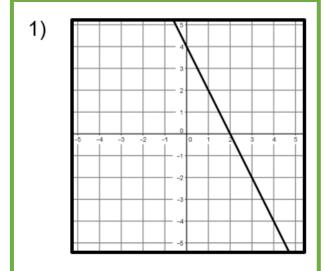
- Cumulative
- Formative
- Summative
- Increasing depth





Which term best describes the point?

- A. y-intercept
- B. x-intercept
- C. vertex
- D. negative slope



What is the x-intercept?

A (2, 0)

B (0, 2)

C (4, 0)

D (0, 4)



- A. x-axis
- B. *x*-variable
- C. x-intercept
- D. S-integer





Intervention

ESL

They're everywhere!

Parents

Dyslexia

Resource

PALS

Sub Folder

Watchdogs

SpiralEd Solutions
Learning how to learn: for math and for life.





Vocabulary + Wall Work + Spirals =

Spiraling to Success



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