

SpiralEd Solutions

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CAMT 2023

Spiraling to Success

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

SpiralEd Solutions

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

Vocabulary

- Having the words to “talk the talk”....developing useful vocabulary.

Wall Work

- Having the moves to “walk the walk”...active engagement and accountability.

Spirals

- Having the questions to “think great thoughts”...one more round.

Vocabulary

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**Spiraling to Success:
having the words to
“talk the talk”**

Vocabulary



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?”

Vocabulary

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«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;»

Vocabulary

What doesn't work....

Cone:

A cone is a shape formed by using a set of line segments which connects a common point, called the apex or vertex, to all the points of a circular base(which does not contain the apex)

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

Vocabulary

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What does work....

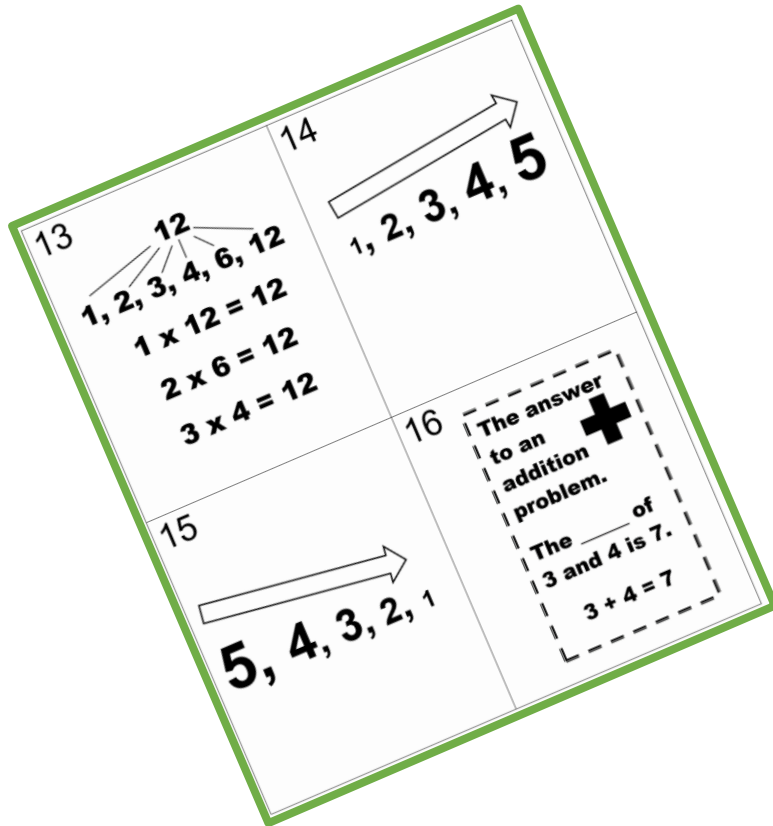


- Start the year with intent.
- Have a reasonable plan.
- Hold yourself accountable.
- Work the plan.
- Celebrate small victories.

Vocabulary

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The Plan....



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

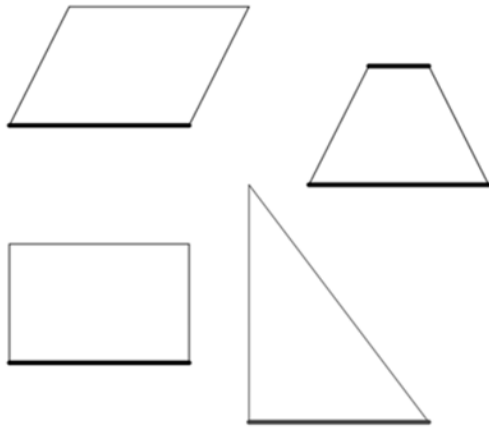
Vocabulary

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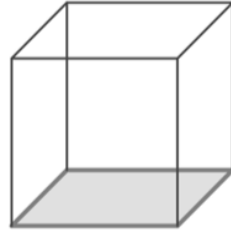
The length of an edge of a polygon,
used to find the area.



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



2

$$322 \div 37$$

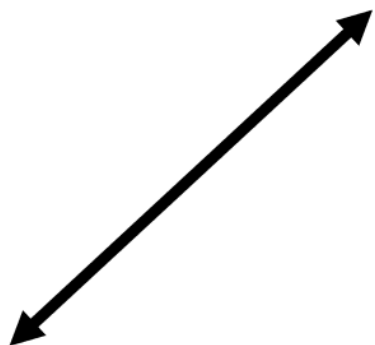
$$320 \div 40$$

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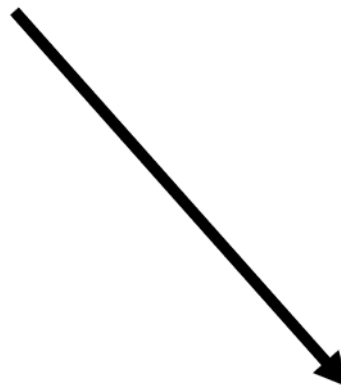
Vocabulary

27



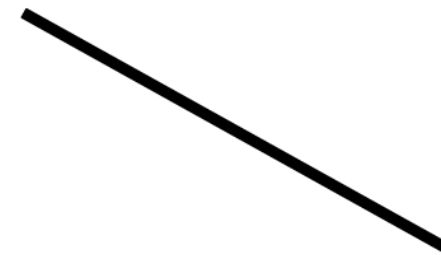
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Vocabulary

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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. (Enlist students in an upper grade level to help with this.)
- 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 2 scope and sequence. They are somewhat random. This is intentional. Students are not learning vocabulary for a given unit, but for Grade 2 math in general. Frontloading future vocabulary helps students master new concepts more quickly. (**Bold** indicates primary term.)

- Card 1 **ones**
- Card 2 **tens**
- Card 3 **hundreds**
- Card 4 **thousands**
- Card 5 **greater than**; larger gets 2 dots
- Card 6 **less than**; smaller gets 1 dot
- Card 7 **equal**
- Card 8 **dozen**
- Card 9 **add, +**
- Card 10 **subtract, -**
- Card 11 **multiply, x**
- Card 12 **divide, ÷**
- Card 13 **sum**

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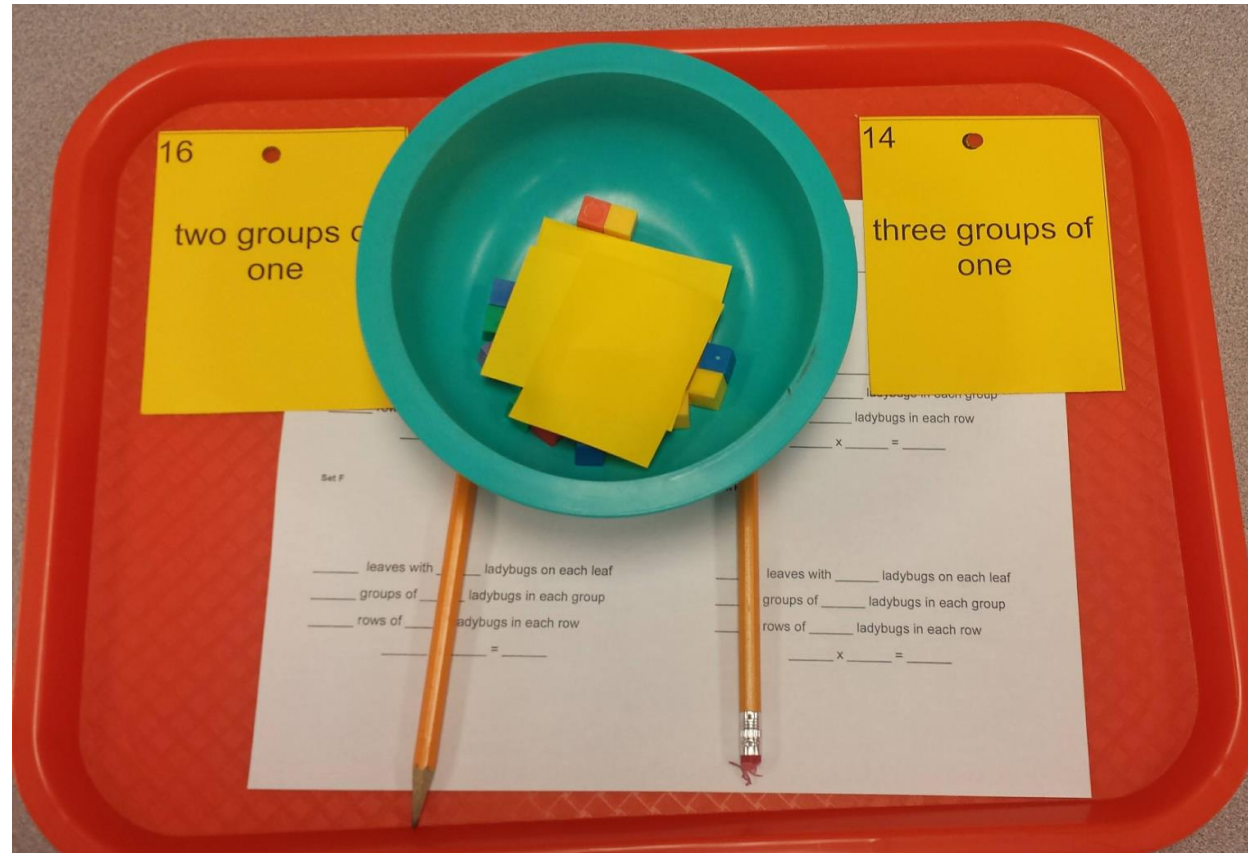
Teacher File

Vocabulary

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Student management....

Card management....



Vocabulary

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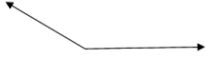
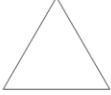


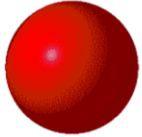
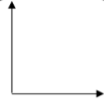



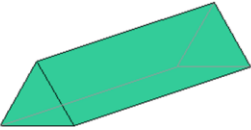
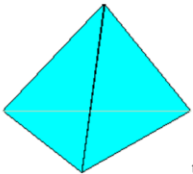
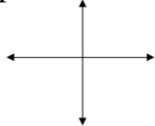


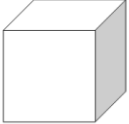










Have fun....



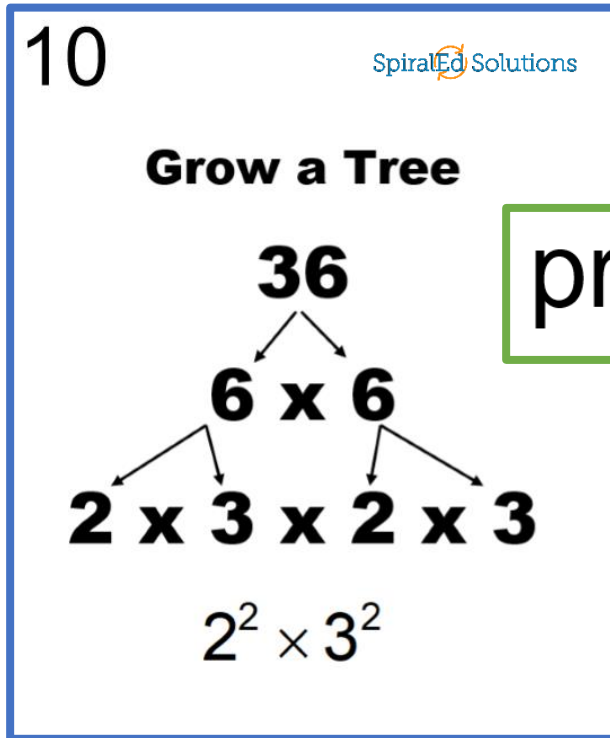
- Using flash cards
- Back Talk
- Table work
- One Up
- Strong questions
- Flyswatter
- What's the question?
- Know the difference
- Bingo
- Wall Work
- 20 Questions

Vocabulary

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<p>square</p> 	<p>rectangle</p> 	<p>cylinder</p> 	<p>hexagon</p> 	<p>acute angle</p> 	<p>obtuse angle</p> 
<p>equilateral triangle</p> 	<p>right triangle</p> 	<p>square pyramid</p> 	<p>sphere</p> 	<p>right angle</p> 	<p>parallel lines</p> 
<p>trapezoid</p> 	<p>parallelogram</p> 	<p>triangular prism</p> 	<p>triangular pyramid</p> 	<p>perpendicular lines</p> 	<p>intersecting lines</p> 
<p>rhombus</p> 	<p>cube</p> 	<p>cone</p> 	<p>ray</p> 	<p>obtuse triangle</p> 	<p>octagon</p> 
<p>rectangular prism</p> 	<p>pentagon</p> 	<p>line</p> 	<p>segment</p> 	<p>translation</p> 	<p>reflection</p> 

Vocabulary



prime factorization

Table Work

Vocabulary

prime factorization

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Grow a Tree

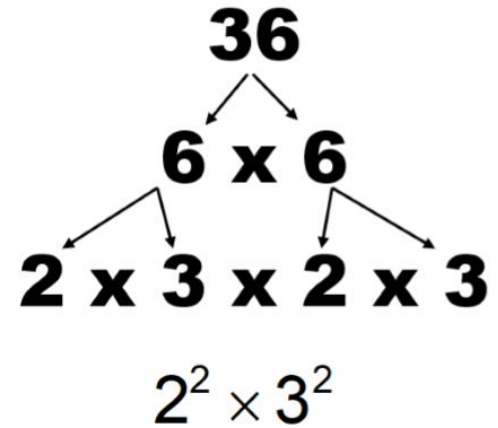
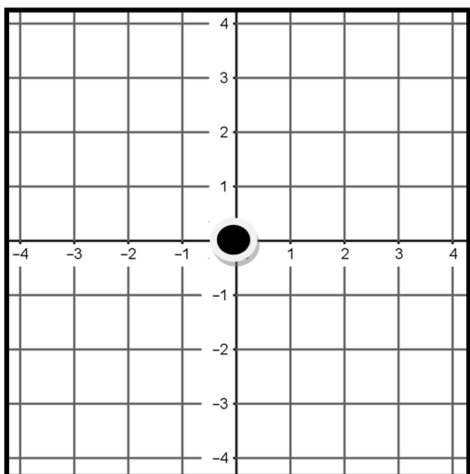


Table Work Reversed

Vocabulary

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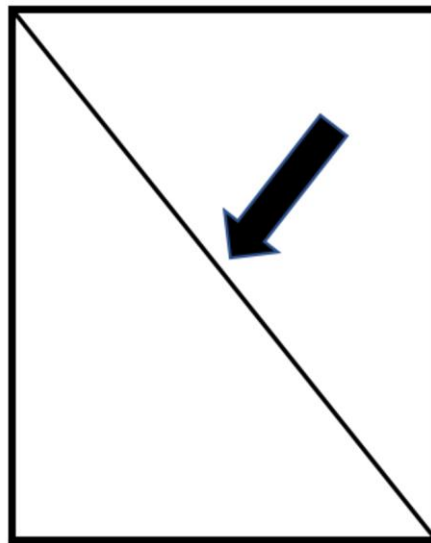
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One Up

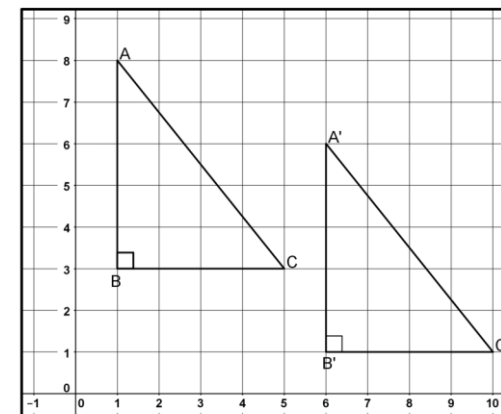
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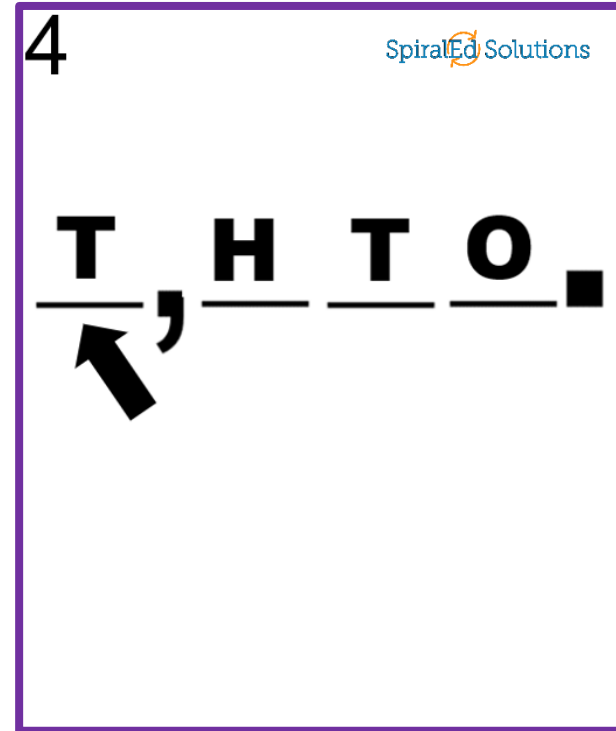
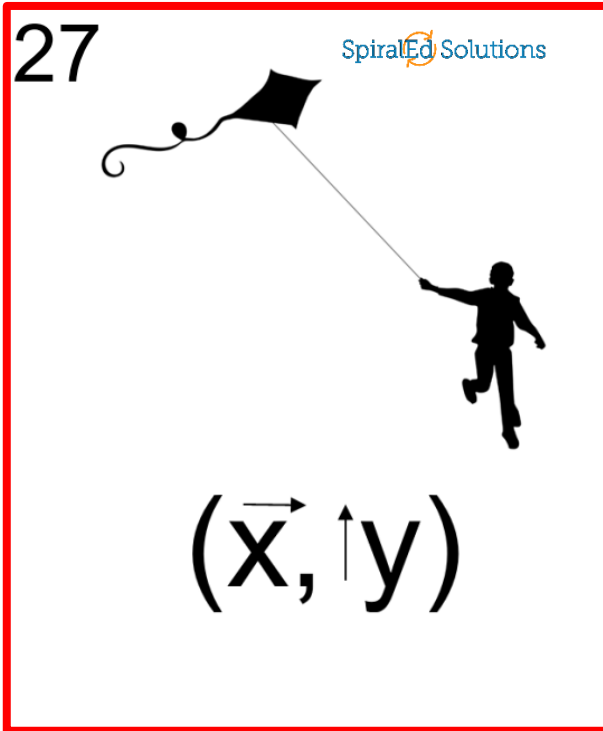
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Vocabulary

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What's the question?

Vocabulary

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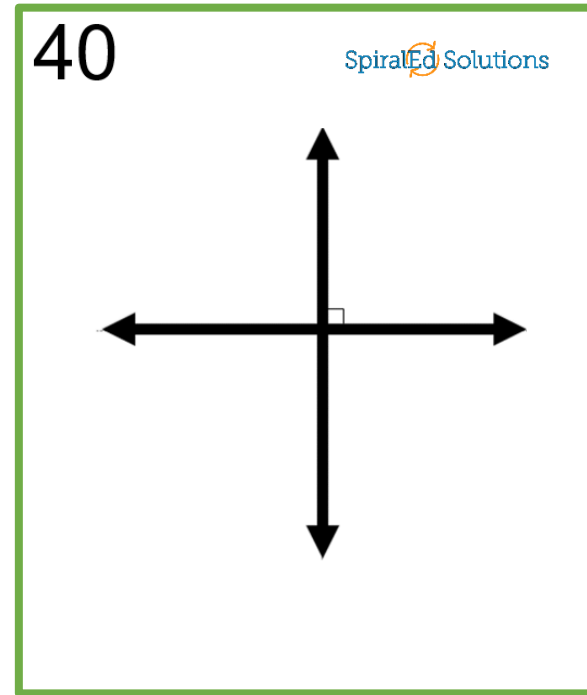
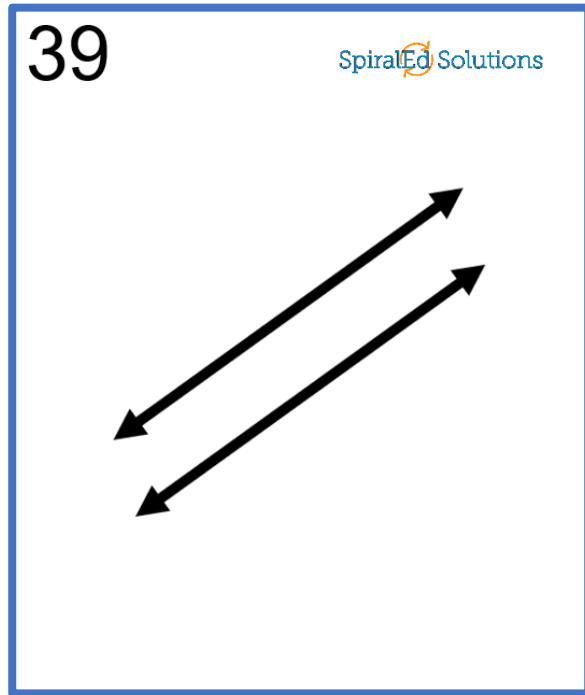
even less than
trapezoid dozen rhombus
odd greater than



Flyswatter

Vocabulary

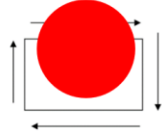
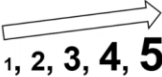

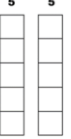
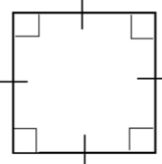

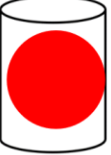
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Know the Difference

Vocabulary

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25 around  <small>SpiralEd Solutions</small>	6 $5 < 9$ "Five is _____ than nine." Remember, the larger number gets the two dots. <small>SpiralEd Solutions</small>	14 The answer to a subtraction problem. The _____ between 7 and 4 is 3. $7 - 4 = 3$ <small>SpiralEd Solutions</small>
17  <small>SpiralEd Solutions</small>	9 Put together like things.  <small>SpiralEd Solutions</small>	23  10 A number that can be divided into two equal groups. <small>SpiralEd Solutions</small>
28  <small>SpiralEd Solutions</small>	11 Put together equal groups.  <ul style="list-style-type: none">• 3 rows• 4 ants on each row• 12 ants <small>SpiralEd Solutions</small>	44  <small>SpiralEd Solutions</small>

BINGO

Vocabulary

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C

●

Factors

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8

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12

1, 2, 3, 4, 6, 12

$1 \times 12 = 12$

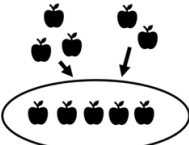
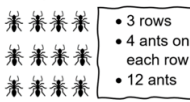
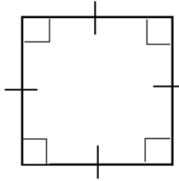

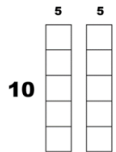
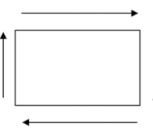
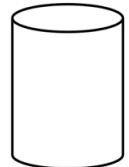
$2 \times 6 = 12$

$3 \times 4 = 12$

Wall Work

Vocabulary

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<p>9</p> <p>Put together like things.</p>  <p><small>SpiralEd Solutions</small></p>	<p>11</p> <p>Put together equal groups.</p>  <p><small>SpiralEd Solutions</small></p>	<p>28</p>  <p><small>SpiralEd Solutions</small></p>
<p>6</p> <p>5 < 9</p> <p>"Five is _____ than nine." Remember, the larger number gets the two dots.</p> <p><small>SpiralEd Solutions</small></p>	<p>17</p>  <p>1, 2, 3, 4, 5</p> <p><small>SpiralEd Solutions</small></p>	<p>23</p>  <p>10</p> <p>A number that can be divided into two equal groups.</p> <p><small>SpiralEd Solutions</small></p>
<p>25</p> <p>around</p>  <p><small>SpiralEd Solutions</small></p>	<p>14</p> <p>The answer to a — subtraction problem.</p> <p>The — between 7 and 4 is 3.</p> <p>7 - 4 = 3</p> <p><small>SpiralEd Solutions</small></p>	<p>44</p>  <p><small>SpiralEd Solutions</small></p>

Twenty Questions

Vocabulary

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Accountability....

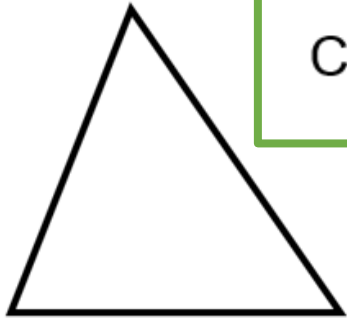
- Cumulative
- Formative
- Summative
- Increasing depth



Vocabulary

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1)



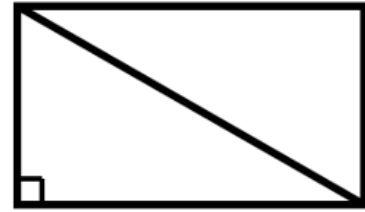
This triangle is...

- A obtuse B right
C acute D isosceles

4) A triangle with three equal sides is...

- A obtuse B right
C scalene D equilateral

27)



What best describes the figure?

- A a rhombus and 2 acute triangles
B a rectangle and 2 obtuse triangles
C a rectangle and 2 right triangles
D a square and 2 right triangles

Vocabulary

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Intervention

Resource

ESL

They're everywhere!

Parents

Dyslexia

PALS

Sub Folder

Watchdogs

Vocabulary

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Learning how to learn: for math and for life.



**Be an active
participant in
your own
rescue.**

SpiralEd Solutions

Vocabulary +
Wall Work +
Spirals =

Spiraling to Success



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