CC INTEGRATED II ETOOLS

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General eTools

Algebra Tiles (CPM)

This tutorial describes how to use the Algebra Tiles including additional features.

Click on the link below to access eTool.

Algebra Tiles (CPM)

1. The top bar has three main parts: Pen & Paper Icon, '?' Icon, and the Arrow Icon.

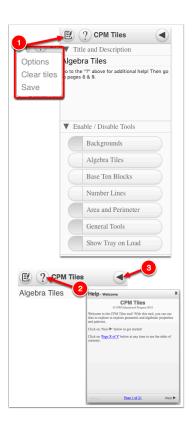
1. Select the Pen & Paper Icon to:

Options - Add Title and Description and Enable/Disable Tools.

Clear Tiles - This will remove all the tiles that are in the tile area.

Save - This will save all the changes made.

- 2. Select the '?' icon for directions.
- 3. Select the Arrow Icon at the right to open and close the tray.



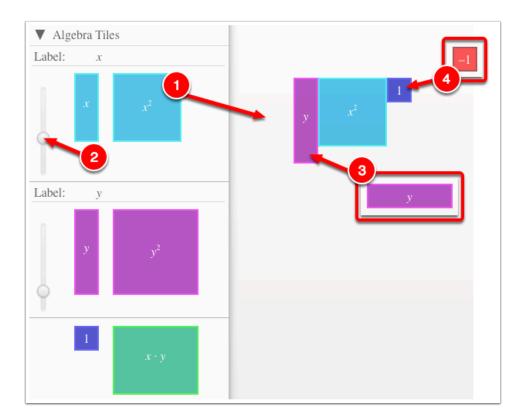
2. Drag tiles from the tray at the left to the display area at the right.

1. Select one of the tiles and drag it to the tile area.



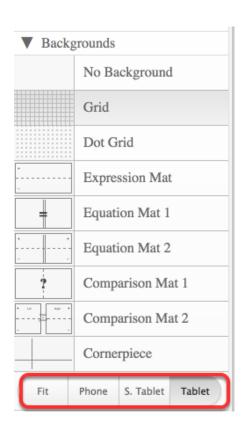
- 2. Use the sliders in the tray to change the size of the tiles.
- 3. Double click tiles to change orientation (horizontal/vertical).
- 4. Click on a tile once to change the sign (+ –).

 Note: The color of the tile will turn to red for negative sign.



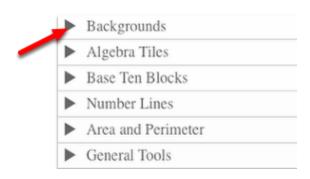
sizes to fit on various devices.

3. Choose from a variety of different mats. Also choose from a variety of



4. Choose from a variety of different tiles:

• Click the arrow next to the tool to view/hide the options for each tool.



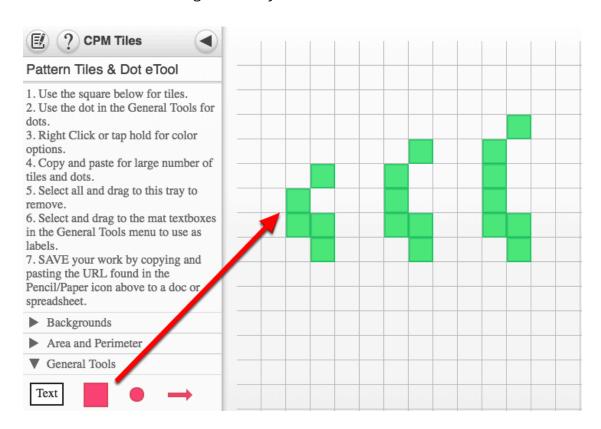
Pattern Tile & Dot Tool (CPM)

Click on the link below.

Pattern Tile & Dot Tool

1. Drag tiles from the tray to the Display area.

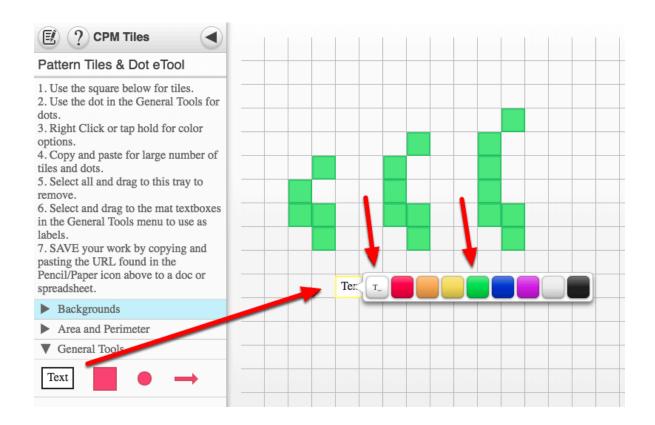
- Add tiles and copy and paste them to the display area.
- Select all tiles and drag to the tray to remove the tiles.



2. Textboxes and Dots

- · Located in the General Tools
- Drag out and choose border/no border and color.
- · Double click to rotate.
- · Click to add text.





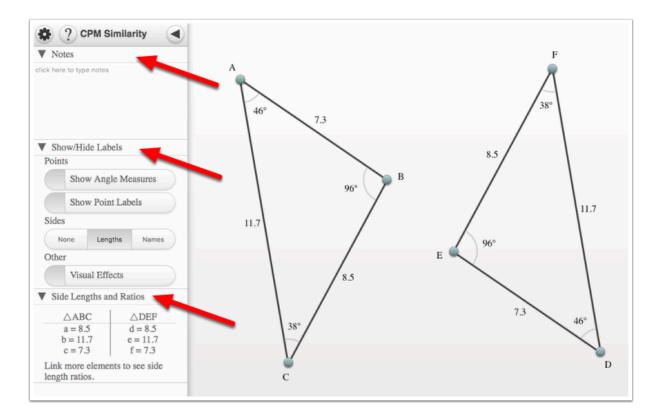
Similarity Toolkit (CPM)

The similarity toolkit allows students to explore two triangles to determine congruency or similarity given SSS, SSA, SAS, AAA, etc.. Students show how two triangles are similar or congruent using rigid transformations (translation, rotation, and reflexion).

1. Click on the "Similarity Toolkit" link below. For additional help, click on the "Similarity Toolkit Video".

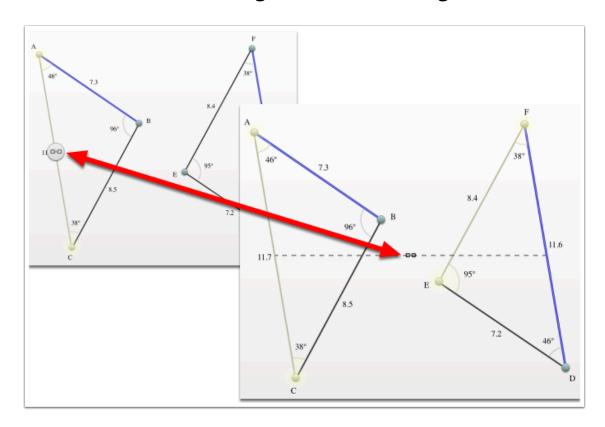
Similarity Toolkit Video Similarity Toolkit (CPM)

2. Similarity Toolkit Basic Controls:

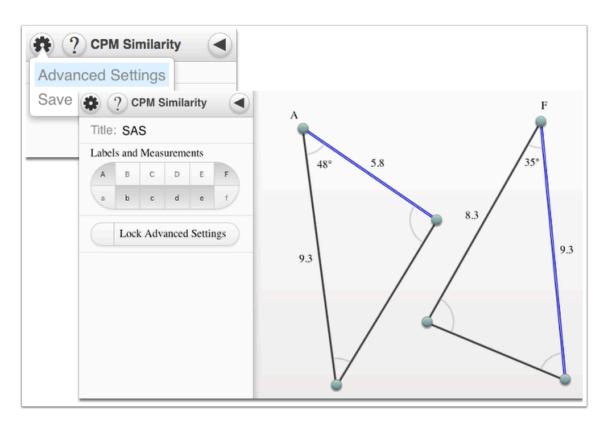


CPM

3. Indicate what sides/angles are similar/congruent.



4. By going to the Advanced Settings, indicate what angles and sides you want shown!



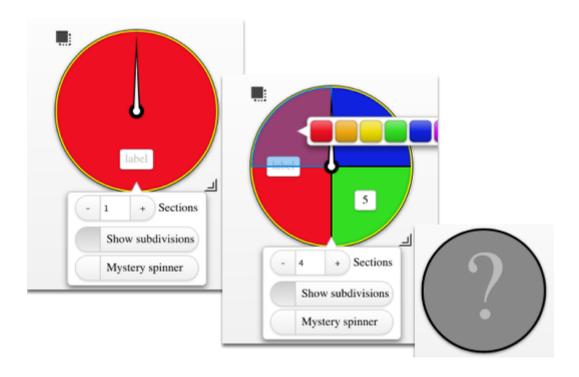
Probability Tools (CPM)

Click on the link below.

Probability Tools (CPM)

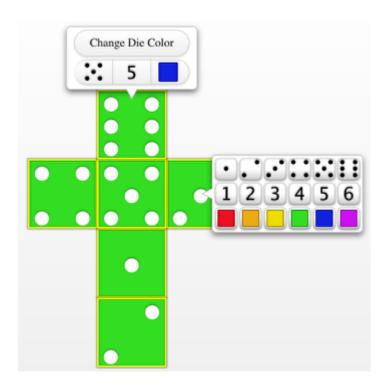
1. Spinners:

- Drag one or more spinners to the board.
- · Resize the spinners.
- Choose color, number of sections, and labels.
- · Hide subdivisions.
- · Create Mystery Spinners.
- Click the spinners to spin.



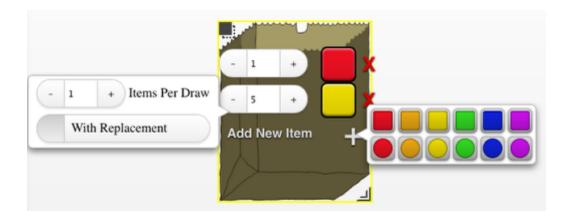
2. Dice:

- Drag one or more dice to the board.
- · Choose dice color.
- Redesign the die with a variety of color, dot numbers, or Arabic numbers.
- · Click each die to spin.



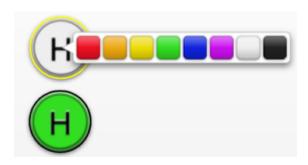
3. Bag:

- Drag one or more bags to the board.
- Choose the number, shape, and color of bag contents.
- Choose with or without replacement.
- Choose the number of items to draw.
- When finished, click the bad to shake and draw.



4. Coins:

- Coins are labelled "H" for Heads and "T" for Tails.
- · Choose the color.
- Drag one or more coins to the board.
- Click each of them to spin.



5. Standard Deck of Cards:

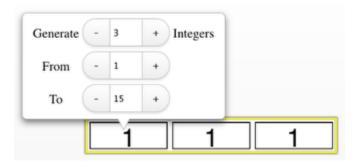
- Drag one or more decks to the board.
- Choose with or without replacement and the number of cards draw at once.
- Modify the deck by eliminating specific cards or entire suits or number.
- Click the deck to draw the cards.



6. Random Number Generator:

- Drag the random number generator to the board.
- Indicate the number of integers to generate.
- Indicate the range for each random number.
- · Click to randomize.







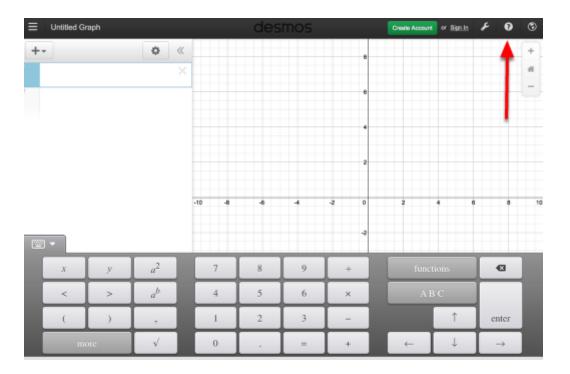
Desmos Graphing Calculator

This free graphing calculator allows students to create a free account to save all of their graphs, animations, and projects created.

Click on the "Desmos Graphing Calculator" link below.

Desmos Graphing Calculator

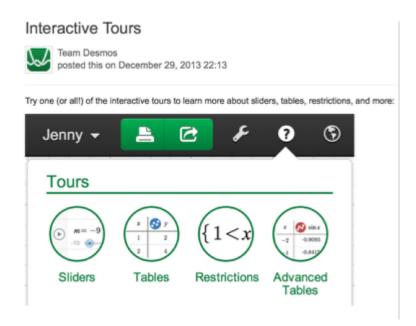
1. Click on all of the buttons. Try it out! For extra help, click the "?".



2. Click on the interactive tours below for help to create:

Sliders <u>Tables</u> **Advanced Tables** Restrictions

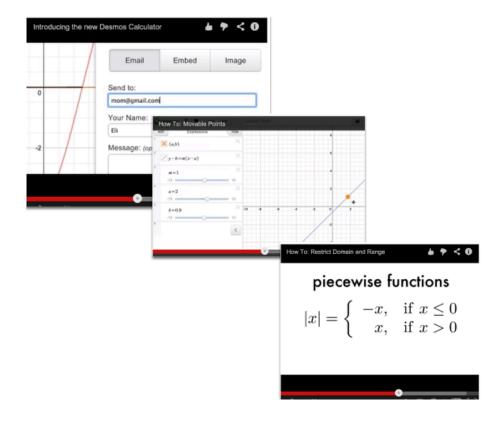
3. The interactive tours will NOT let you make a mistake! Try the links above!



4. Need additional help? Watch these very short excellent videos!

Desmos Introduction Moveable Points Graph Inequalities Piece-Wise Function

5. The video links will help you with many of your graphing projects!



6. If you still need help, check out Desmos "Knowledge Base"

Desmos Knowledge Base

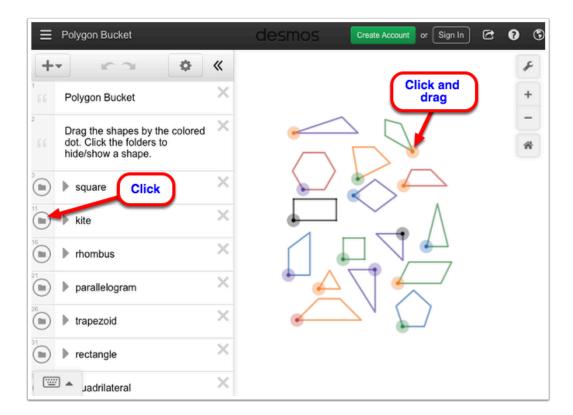
Polygon Bucket eTool (Desmos)

Click on the link below to access eTool.

Polygon Bucket (Desmos)

Use this eTool to explore polygons.

- To move a shape, click the colored dot and drag the shape to where you want to move it.
- To hide/show a shape, click the folder icon before the name of the shape.





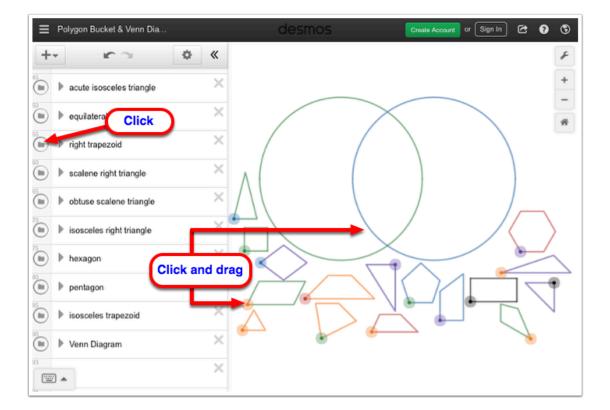
Polygon Bucket and Venn Diagram Practice eTool (Desmos)

Click on the link below to access eTool.

Polygon Bucket and Venn Diagram Practice eTool (Desmos)

Use this eTool to learn more about different Polygons and Venn Diagram.

- 1. Move a shape to the appropriate section on the Venn Diagram.
 - Click the colored dot and drag it to the appropriate section on the Venn Diagram
- 2. Click the folder icon before the name of the shape to view or hide a shape.



Chapter 1

INT2 1.1.1 1-3 Venn Diagrams Student eTools (Desmos)

Click on the links below to access eTools.

1-3 Venn Diagram A: Student eTool(Desmos)

1-3 Venn Diagram B: Student eTool(Desmos)

1-3 Venn Diagram C: Student eTool(Desmos)

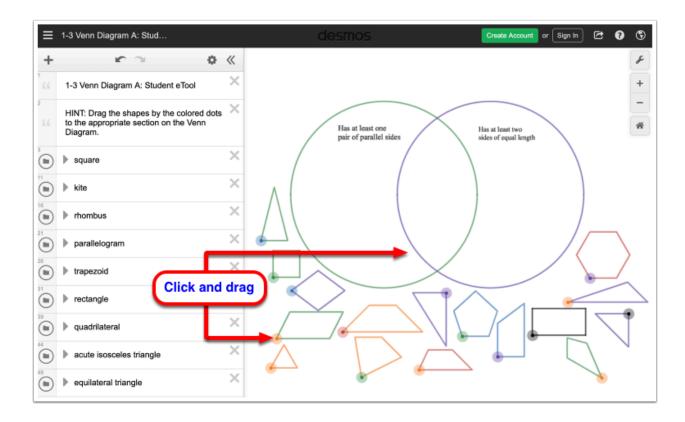
A Venn diagram is a tool used to classify objects. An item is placed in the Venn diagram in the appropriate region based on the conditions it meets.

1-3 Venn Diagram A

The *left* circle of the Venn diagram, Circle #1, represents the condition "has at least one pair of parallel sides" and the *right* side, Circle #2, represents the condition "has at least two sides of equal length" as shown below.

Sort through the polygons in the Polygon Bucket and decide as a team where each polygon belongs.

• Click on the colored points on each shape and drag it to the appropriate section on the Venn Diagram.

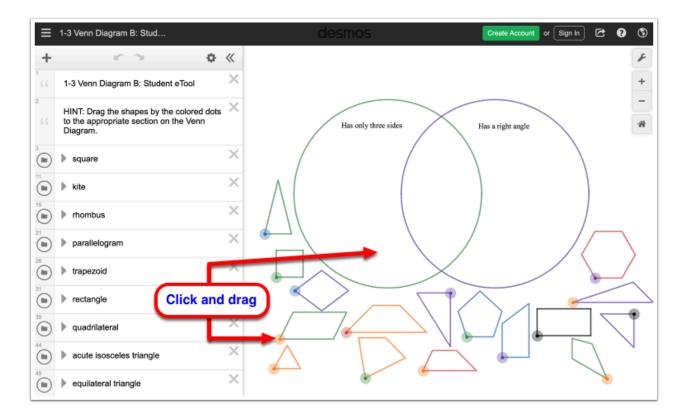


1-3 Venn Diagram B

Next, reclassify the polygons for the new Venn diagram shown below.



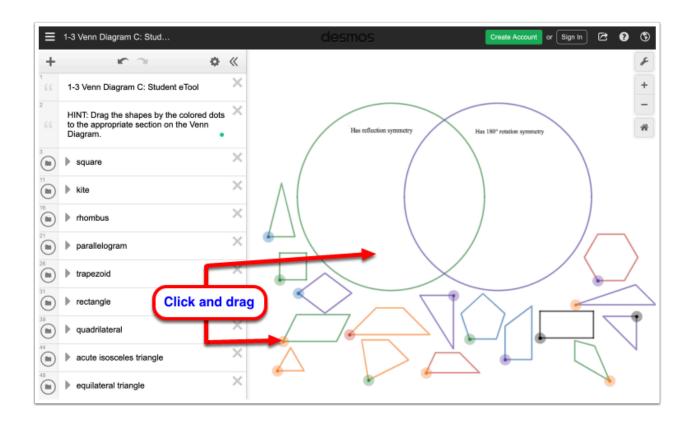
• Click on the colored points on each shape and drag it to the appropriate section on the Venn Diagram.



1-3 Venn Diagram C

Finally, reclassify the polygons for the new Venn diagram shown below.

• Click on the colored points on each shape and drag it to the appropriate section on the Venn Diagram.





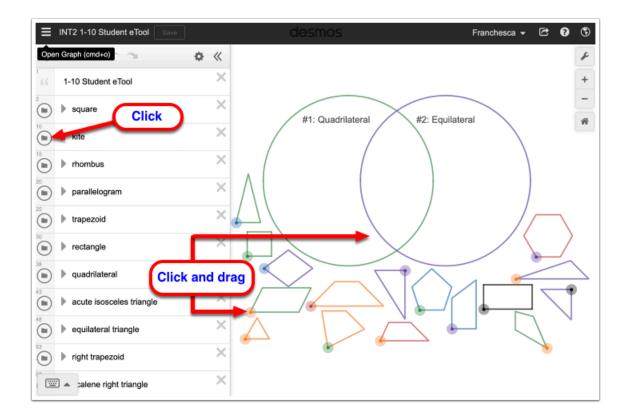
INT2: 1.1.2 1-10 Student eTool (Desmos)

Click on the link below to access eTool.

1-10 Student eTool (Desmos)

Use this eTool to learn more about different Polygons and Venn Diagram.

- 1. Move a shape to the appropriate section on the Venn Diagram.
- Click the colored dot and drag it to the appropriate section on the Venn Diagram
- 2. Click the folder icon before the name of the shape to view or hide a shape.





INT2 1.2.1: 1-52 Venn Diagrams Shape A, B & C eTools (Desmos)

Click on the links below.

Shape Bucket(Desmos)

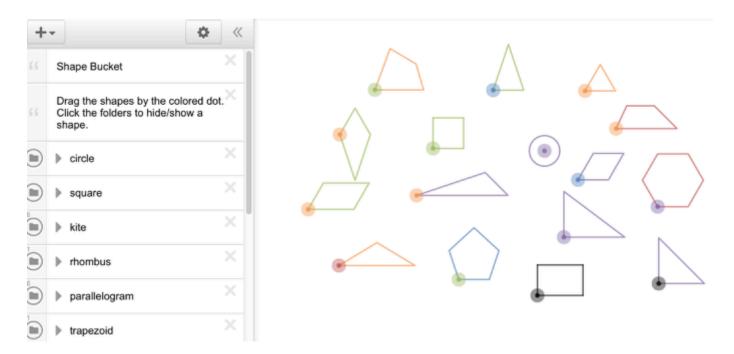
Generic Venn Diagram(Desmos)

1-52 Venn Diagram A: Student eTool(Desmos)

1-52 Venn Diagram B: Student eTool(Desmos)

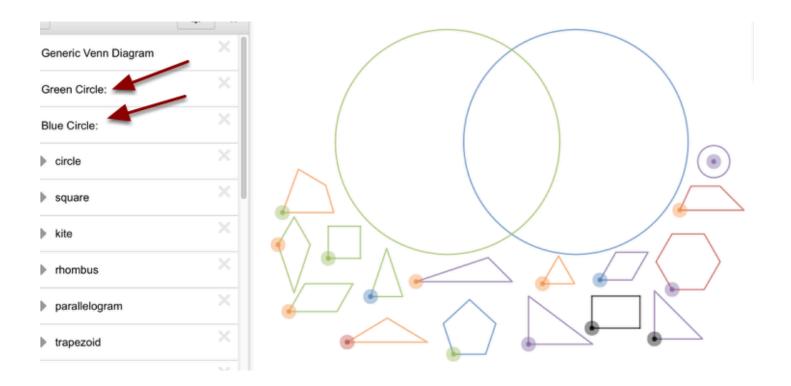
1-52 Venn Diagram C: Student eTool(Desmos)

1. Shape Bucket



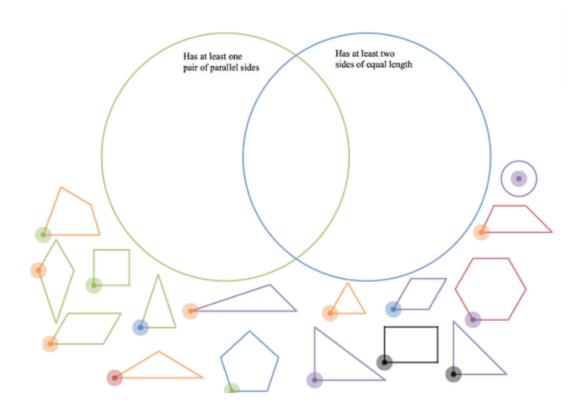
2. Generic Venn Diagram

- Type the attributes for each circle at the left
- Fill the circles appropriately.



3. Venn Diagram A:

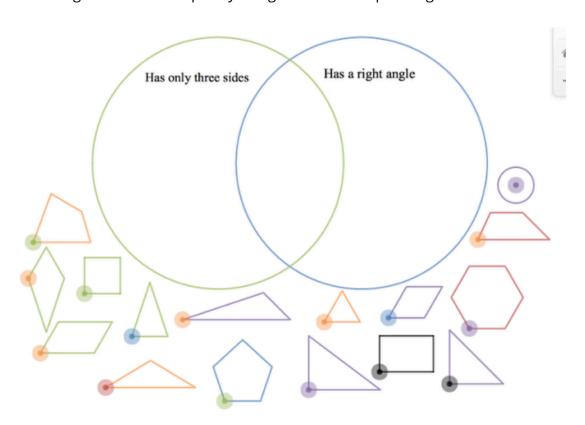
- Hide the tray for more room to move the shapes.
- Enlarge/shrink the shapes by using the mouse or pinching on a tablet.



4. Venn Diagram B:

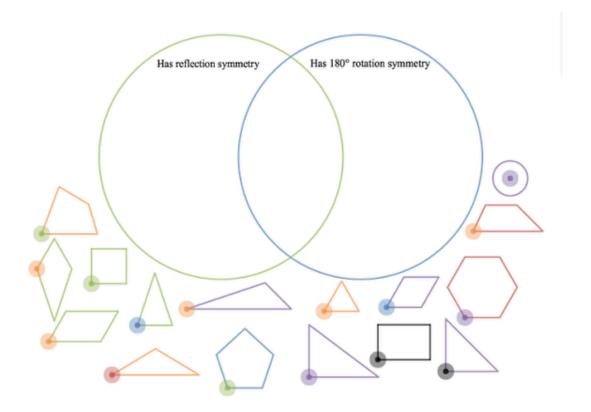
• Hide the tray for more room to move the shapes.

• Enlarge/shrink the shapes by using the mouse or pinching on a tablet.



5. Venn Diagram C:

- Hide the tray for more room to move the shapes.
- Enlarge/shrink the shapes by using the mouse or pinching on a tablet.



INT2 1.3.2: Marcos' Tile Pattern (CPM)

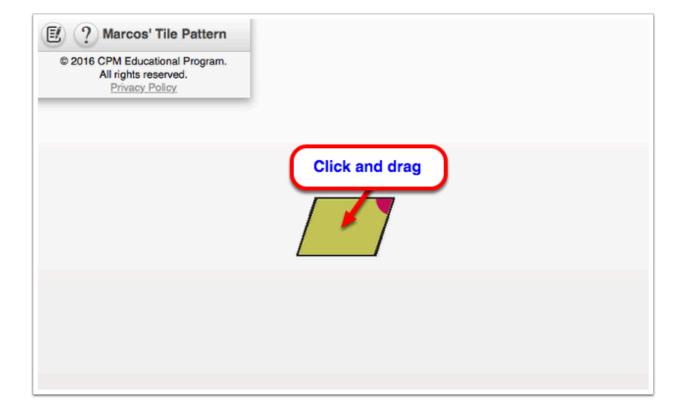
Tessellate the parallelograms by sliding them up, down, or sideways. Double click the yellow parallelogram to rotate.

Click the link below.

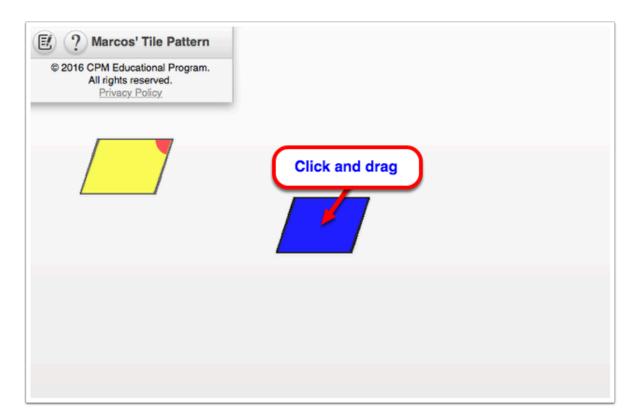
Marcos' Tile Pattern (CPM)

This is an interactive eTool about Marcos's Tile Pattern.

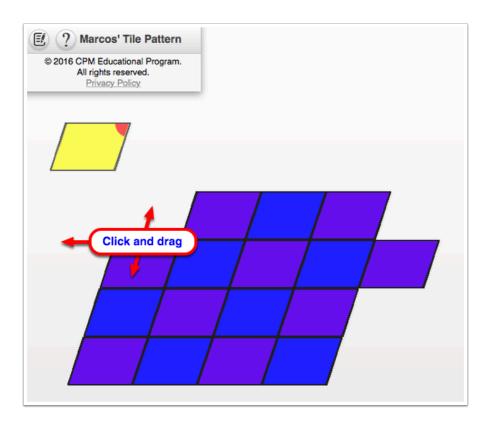
1. Click on the yellow tile and drag it away from the blue tile.



2. Click the blue tile and drag horizontally or vertically to tessellate.

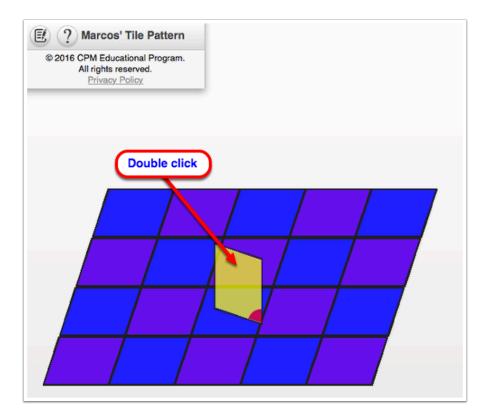


3. Click and drag until the entire space is covered.





4. Double click on the yellow tile to rotate at 90 degree intervals.





INT2 1.3.4: Triangle Sum Theorem (Desmos)

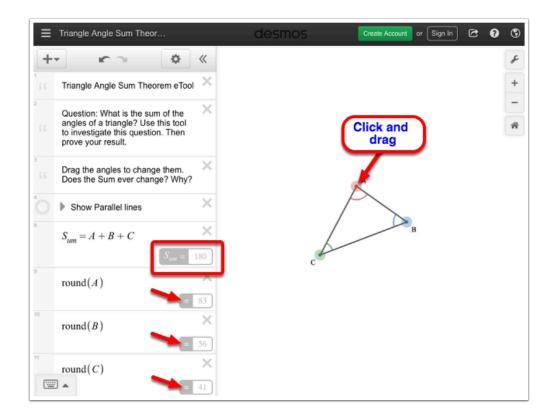
Click on the link below to access eTool.

Triangle Sum Theorem (Desmos)

1. Triangle Sum Theorem:

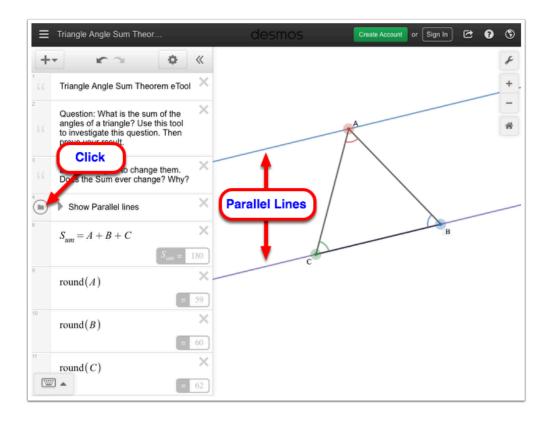
• Click the points and drag to change the angles.

NOTE: The Sum and values of round (A) to (C) change when the points are moved.



2. How does "Show Parallel Lines" help when determining the sum of the interior angles of a triangle?

• Click the folder icon in Line for to show the Parallel Lines.



Chapter 2

INT2 2.1.2: Similarity Stretching Word Document (CPM)

This document will download to your computer.

Click on the link below for the "Similarity Stretching Word Document".

Similarity Stretching Word Document

57

STRETCHING EXERCISE



Original



INT2 2.2.1: 2-33b, 2-33c, 2-35a, 2-35b#1,& 2-35b#2 Student **eTools**

Click on the links below.

2-33b Student eTool (CPM)

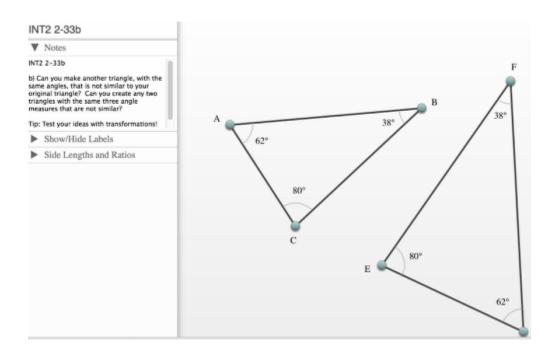
2-33c Student eTool (CPM)

2-35a Student eTool (CPM)

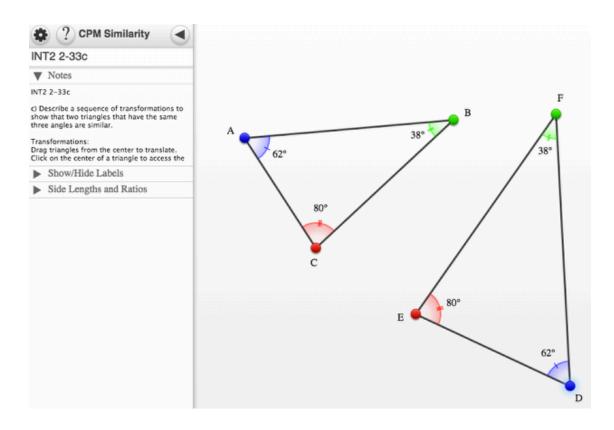
2-35b #1 Student eTool (CPM)

2-35b #2 Student eTool (CPM)

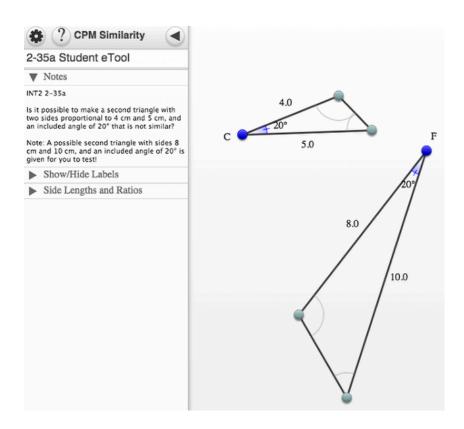
1. INT2 2-33b:



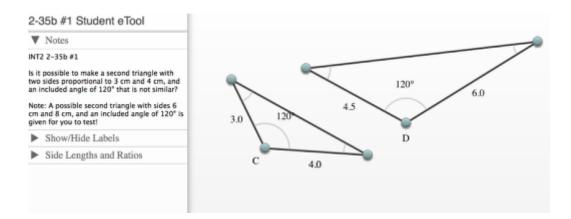
2. INT2 2-33c:



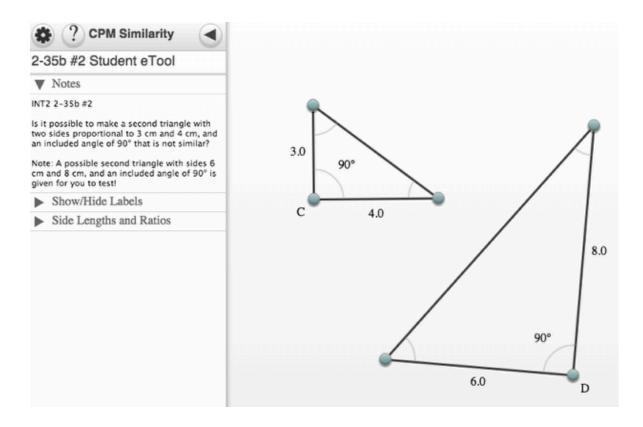
3. INT2 2-35a:



4. INT2 2-35b #1:



5. INT2 2-35b #2:

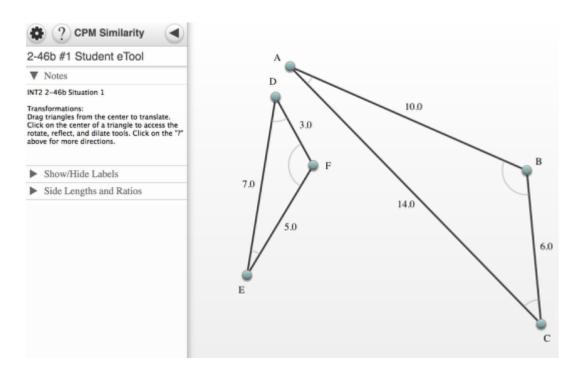


INT2 2.2.2: 2-46b #1, 2-46b #2 eTool, & 2-47 Student eTools

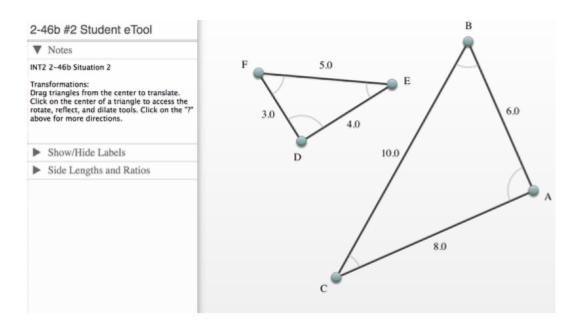
Click on the links below.

2-46b #1 eTool (CPM) 2-46b #2 eTool (CPM) 2-47 Student eTool (CPM)

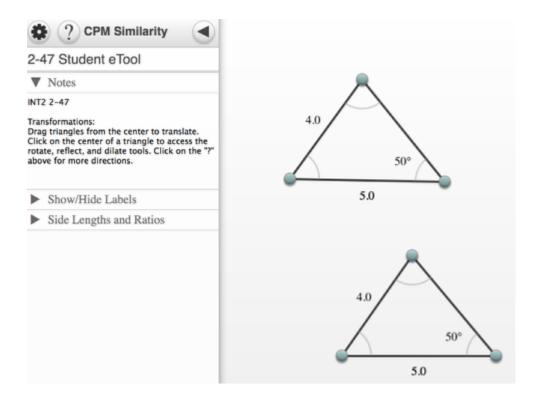
1. INT2 2-46b#1



2. INT2 2-46b #2



3. INT 2 2-47:

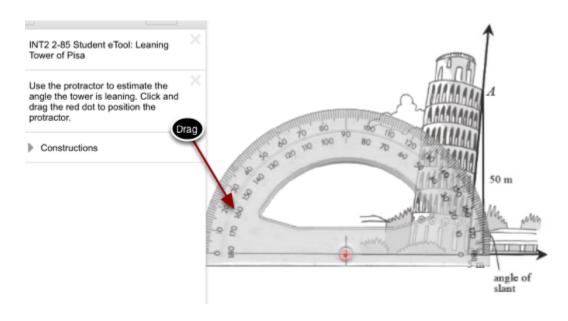


INT2 2.3.1: 2-85 Student eTool & Leaning Tower of Pisa Video

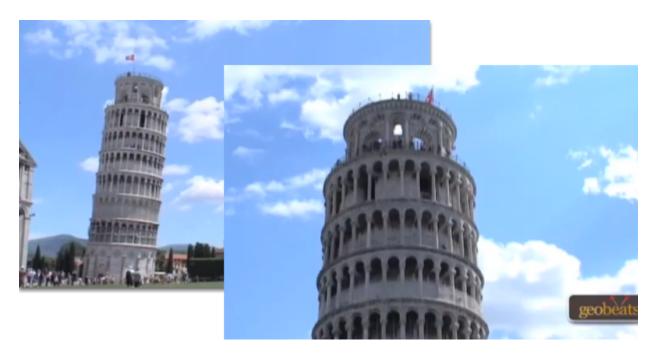
Click on the link below for the "Leaning Tower of Pisa and Information Video"

2-85 Student eTool (Desmos)
Leaning Tower of Pisa Information Video

1. Estimate the angle the tower is leaning using the protractor.



2. This video shows the architecture of the Leaning Tower of Pisa.



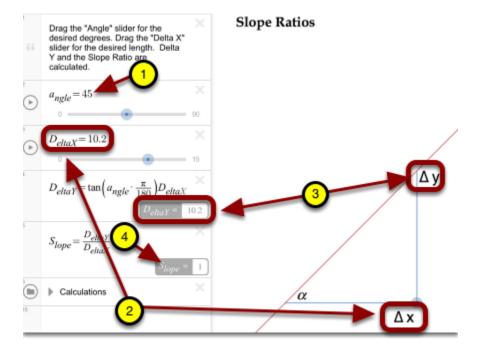
INT2 2.3.3: Slope Ratios

Click on the link below for the "Slope Ratios" eTool.

Slope Ratios (Desmos)

1. Use the sliders to:

- · Select an angle.
- Change the length of the adjacent side, delta x.
- The opposite side length, delta y, and the slope are calculated below.



INT2 2.3.5: History of the Statue of Liberty

Click on the link below for the "History of the Statue of Liberty"

History of the Statue of Liberty

1.



2.





3.



4.



Chapter 3

INT2 3.1.2: 3-12 Student eTool (CPM)

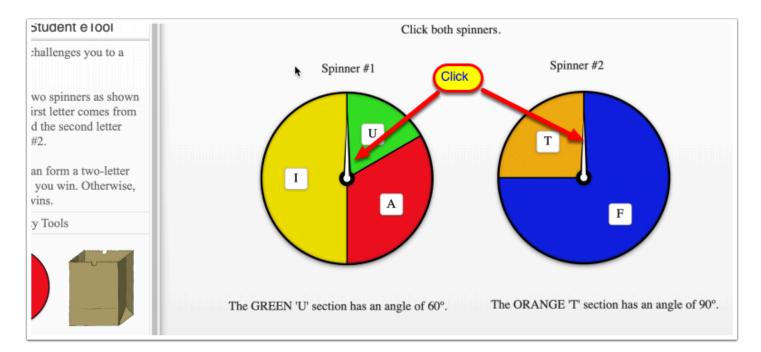
Click on the link below to access eTool.

3-12 Student eTool (CPM)

Use this eTool to play the spinner game.

• Click each spinner to select random letter.

Note: Spinner #1 is for the first letter and Spinner #2 is for the second letter.

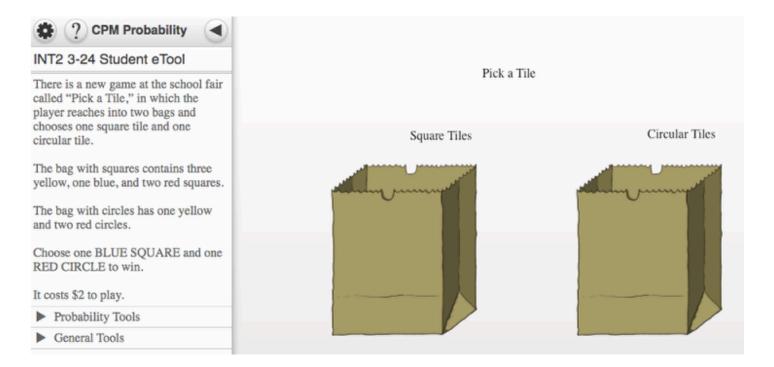


INT2 3.1.3: 3-24 Student eTool (CPM)

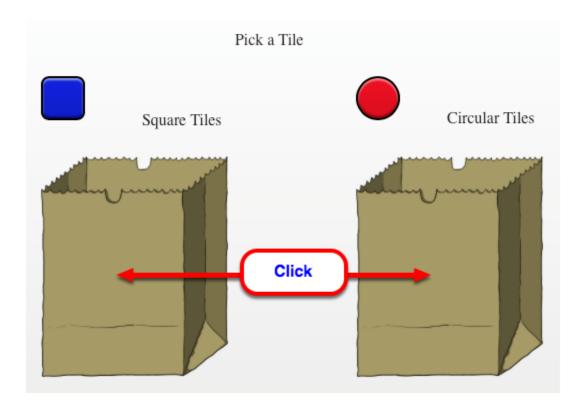
Click on the link below to access eTool.

3-24 Student eTool (CPM)

Pick a Tile Game



Click each bag to pick a square tile and a circle tile randomly.



TI-84: Generating Random Numbers



TI-84 Video: Generating Random Numbers (YouTube) (Vimeo)

1. Be sure you "seed" your calculator. This will ensure that the same random numbers do not appear on everyone's calculator. Enter a random number in the calculator such as the student ID number or telephone number. Then press [STO->] [MATH] "PRB" "1:rand".

Note: This step only needs to be completed once unless you reset the calculator! Â And you will not get the same numbers!

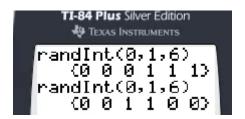


2. Specify the minimum and maximum integers possible, and how many random integers to generate. For example, [MATH] "PRB" "5:randInt(1,10,5)" [ENTER] generates 5 numbers between 1 and 10.

Note: Hit [Enter] to get 5 more random numbers between 1 and 10. Of course, you will not likely get the same random numbers.

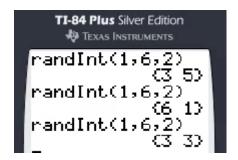
3. To simulate flipping a coin, let '0' be heads and '1' be tails. For example, [MATH] "PRB" "5:randInt(0,1,6)" [ENTER] generates 6 numbers between 0 and 1. All of the '0's are Heads. All of the '1's are Tails!

The image below shows 3 heads and 3 tails. Then it shows 4 heads and 2 tails.

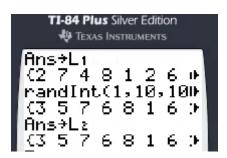


4. To simulate rolling dice, go to [MATH] "PRB" "5:randInt(1,6,2)" [ENTER] generates 2 numbers between 1 and 6.

The image below shows rolling a die three times and the results.



5. You could also generate a lot of numbers and store them in a list. For example, [MATH] "PRB" "5:randInt(1,10,100" [ENTER] generates 100 numbers between 1 and 10. Then [STO->] [2nd] 'L1' will place the numbers in List 1.



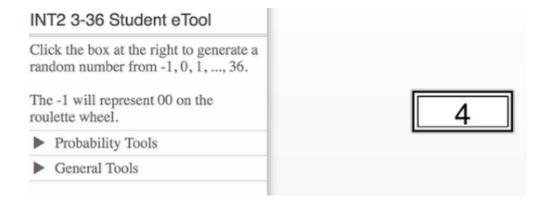
INT2 3-36 & 3-43 Student eTools

Click on the links below.

3-36 Student eTool (CPM)
3-43 Student eTool (CPM)

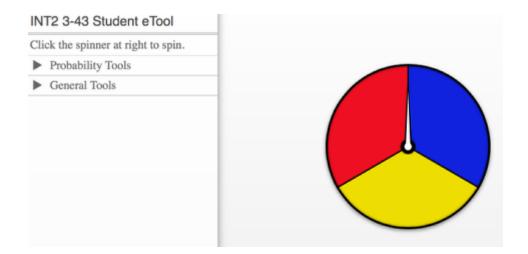
1. INT2 3-36 Student eTool:

- Click on the number box to generate a new random number
- The numbers will simulate numbers on a roulette wheel.
- "00" will be represented by a -1 on the random generator.



2. INT2 3-43 Student eTool:

· Click the spinner to spin.



INT2 3.1.5: 3-47, 3-48, and 3-49 Student eTools (CPM)

Click on the links below to access eTools.

3-47 Student eTool (CPM)

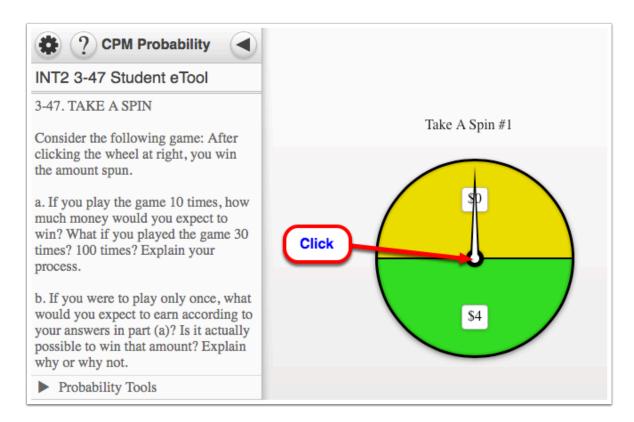
3-48 Student eTool (CPM)

3-49 Student eTool (CPM)

Take A Spin Games

3-47: Take A Spin #1

• Click on the wheel to spin.

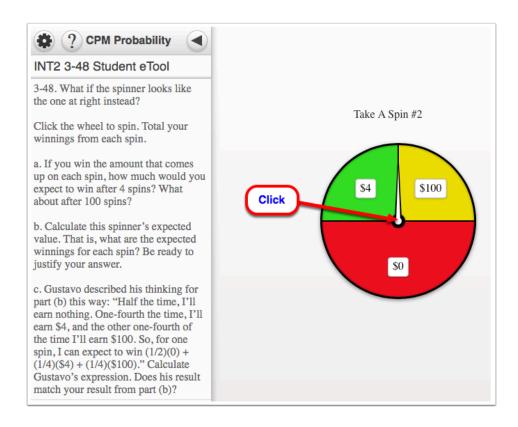


3-48: Take A Spin #2

· Click on the wheel to spin.

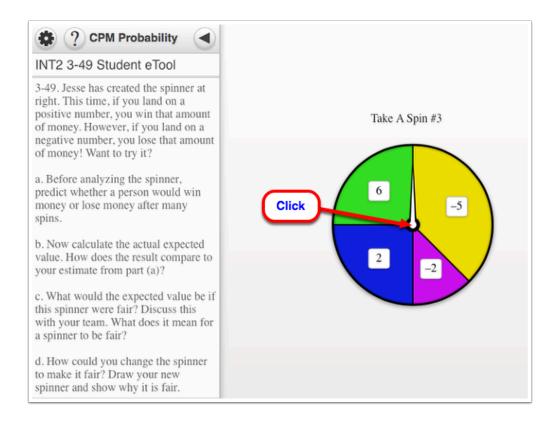


CPM Educational Program



3-49: Take A Spin #3

· Click on the wheel to spin.



INT2 3.1.5: 3-50, 3-51 & 3-52 Spinners

Click on the links below.

3-50 Student eTool (CPM)

3-51 Student eTool (CPM)

3-52 Student eTool (CPM)

1. Int2 3-50 Student eTool:

INT2 3-50 Student eTool

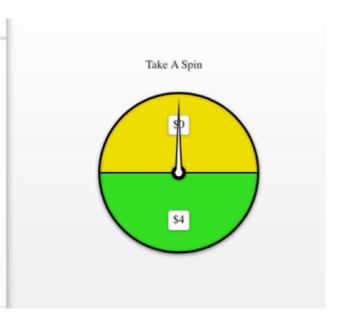
Game Rules:

After clicking the wheel at right, you win the amount spun.

a. If you play the game 10 times, how much money would you expect to win? What if you played the game 30 times? 100 times? Explain your process.

b. What if you played the game n times? Write an equation for how much money someone can expect to win after playing the game n times.

c. If you were to play only once, what would you expect to earn according to your equation in part (b)? Is it actually possible to win that amount? Explain why or why not.



2. Int2 3-51 Student eTool:

INT2 3-51 Student eTool

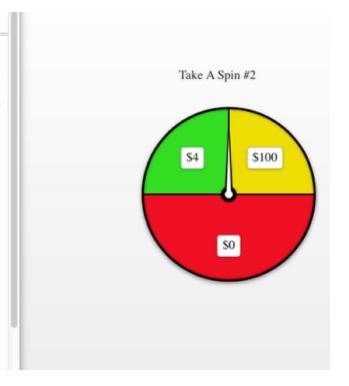
Game Rules:

Click the wheel to spin. Total your winnings from each spin.

a. If you win the amount that comes up on each spin, how much would you expect to win after 4 spins? What about after 100 spins?

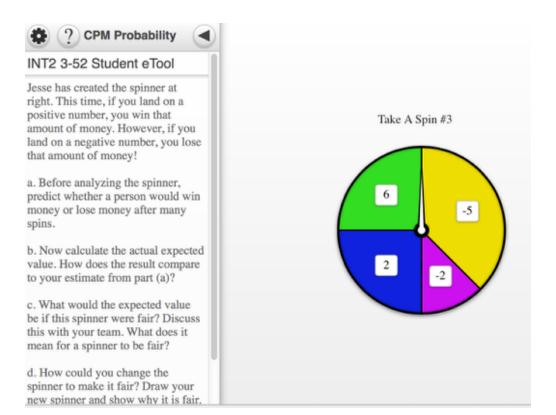
b. Find this spinner's expected value. That is, what is the expected amount you will win for each spin? Be ready to justify your answer.

c. Gustavo describes his thinking this way: "Half the time, I'll earn nothing. One-fourth the time, I'll earn \$4 and the other one-fourth of the time I'll earn \$100. So, for one spin, I can expect to win .5(0) + .25(\$4) + .25\$100)." Calculate Gustavo's expression. Does his result match your result from part





3. Int2 3-52 Student eTool:



INT2 3.2.3: 3-89 and 3-90 Student eTools (Desmos)

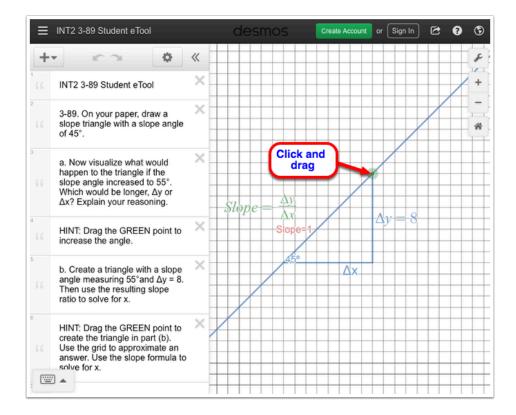
Click on the links below to access eTools.

3-89 Student eTool (Desmos)
3-90 Student eTool (Desmos)

Slope Ratios

3-89

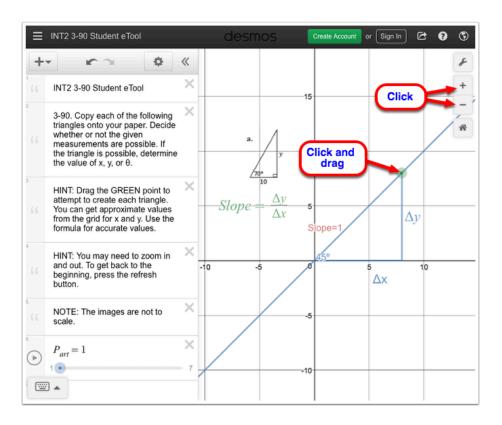
• Click on the green point on the graph and drag it to increase the angle.



3-90

- Click on the green point on the graph and drag it to create triangle.
- Click on the "+" and "-" on the upper right corner of the eTool to Zoom In and Zoom Out the graph.

CPM Educational Program



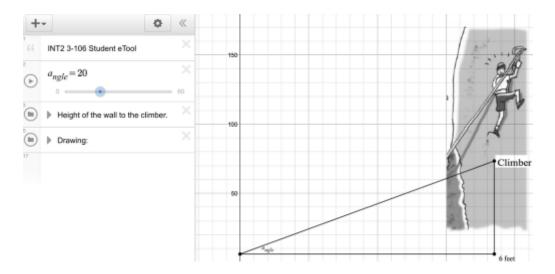


INT2 3.2.4: 3-106 Student eTool

Click on the link below.

Int2 3-106 Student eTool (Desmos)

1. Move the slider to the desired angle. Use the diagram and your knowledge of trigonometry to solve the parts in this problem.



Chapter 4



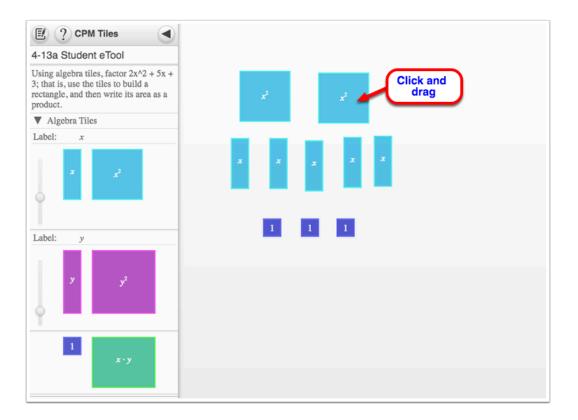
INT2 4.1.2: 4-13a Student eTool (CPM)

Click on the link below to access eTool.

4-13a Student eTool (CPM)

Use this eTool to build a rectangle from the given tiles for problem 4-13a.

• Click each tile and drag it to the desire location.

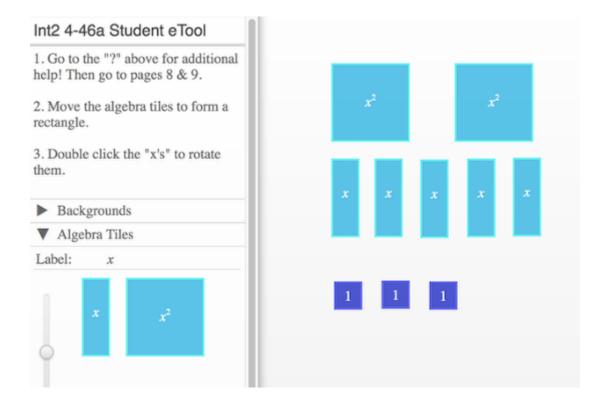


Int2 4.2.2: 4-46a Student eTool (CPM)

Click on the link below.

4-46a Student eTool (CPM)

4-46a Student eTool:



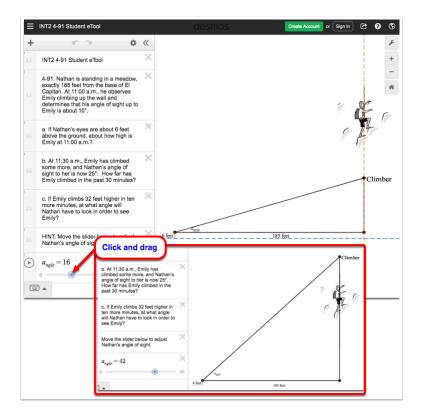
INT2 4.1.2: 4-91 Student eTool (Desmos)

Click on the link below to access the eTool.

4-91 Student eTool (Desmos)

Use this eTool to visualize problem 4-91.

• Click on the angle slider and drag (horizontally) to adjust the angle.



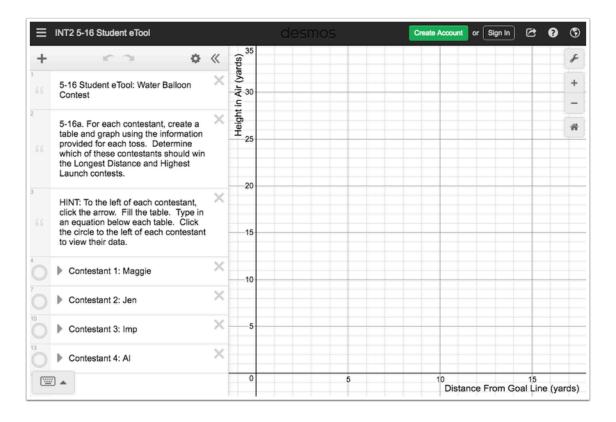
Chapter 5

INT2 5.1.2: 5-16 Student eTool (Desmos)

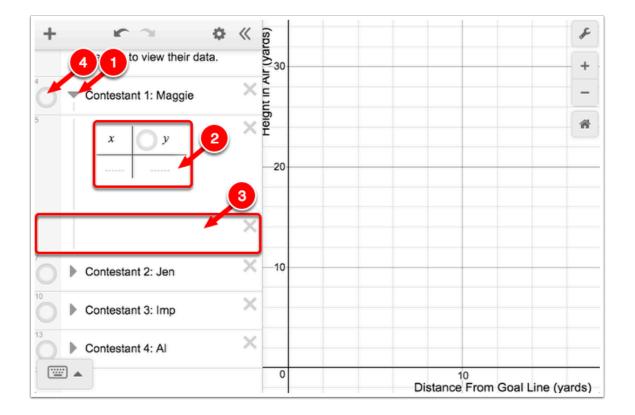
Click on the link below to access eTool.

5-16 Student eTool (Desmos)

Use this eTool to complete part (a) of problem 5-16.



- 1. Click the arrow to the left of each contestant the view the folder content.
- 2. Enter the 'x' and 'y'values in each table.
- 3. Type in an equation below each table.
- 4. Click the circle to the left of each contestant to view their data.





INT2 5.2.3: 5-83 Student eTool (CPM)

Click on the link below to access eTool.

5-83 Student eTool (CPM)

Use this eTool to help you solve each quadratic equation below by completing the square.

a.
$$x^2 6x + 7 = 0$$

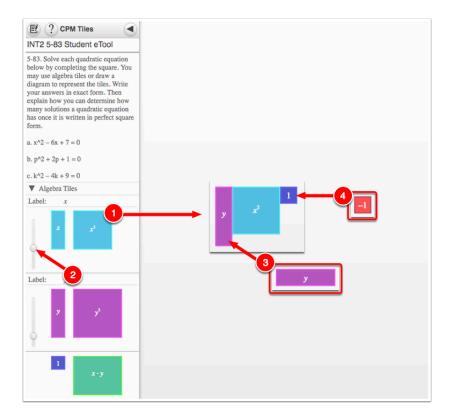
b.
$$p^2 + 2p + 1 = 0$$

c.
$$k^2 4k + 9 = 0$$

Use the algebra tiles to represent the tiles.

- 1. Select one of the tiles and drag it to the tile area.
- 2. Use the sliders in the tray to change the size of the tiles.
- 3. Double click tiles to change orientation (horizontal/vertical).
- 4. Click on a tile once to change the sign (+ -).

Note: The color of the tile will turn to red for negative sign.



Chapter 6

INT2 6.2.3: 6-68 Student eTool (Desmos)

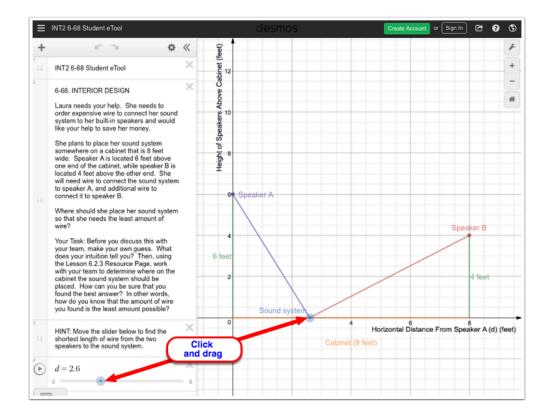
Click on the link below to access eTool.

6-68 Student eTool (Desmos)

Use this eTool to help you determine where on the cabinet the sound system should be placed.

Move the slider below to find the shortest length of wire from the two speakers to the stereo.

• Click the BLUE point (slider) and drag horizontally to move.



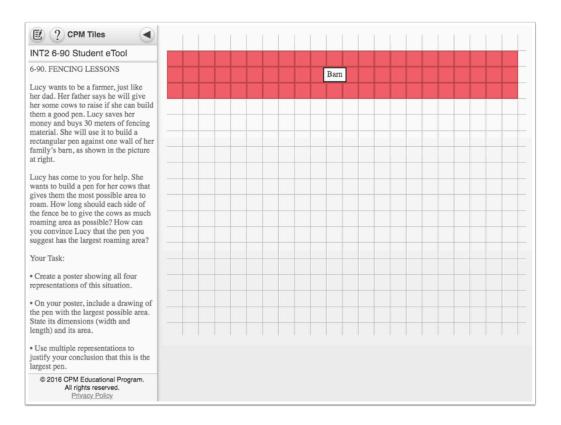
INT2 6.2.5: 6-90 Student eTool (CPM)

Click on the link below to access eTool.

6-90 Teacher eTool (CPM)

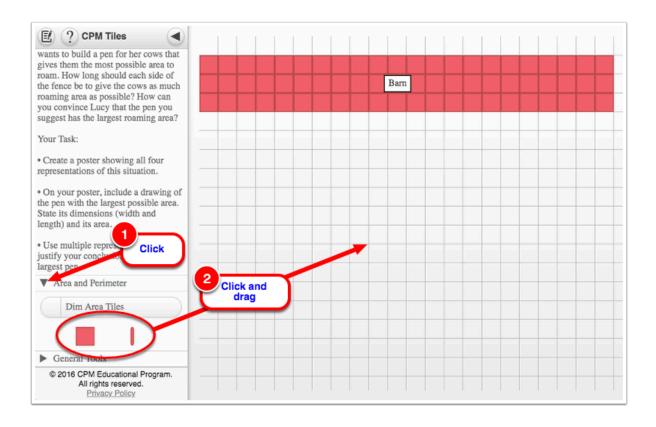
Use this eTool to complete the task in problem 6-90.

- Create a poster showing all four representations of this situation.
- On your poster, include a drawing of the pen with the largest possible area. State its dimensions (width and length) and its area.
- Use multiple representations to justify your conclusion that this is the largest pen.



1. Click the arrows on the left of 'Area and Perimeter' and 'General Tools' to view/ hide the tools.

2. Click the tool to be used and drag it to the tile area.



Chapter 7

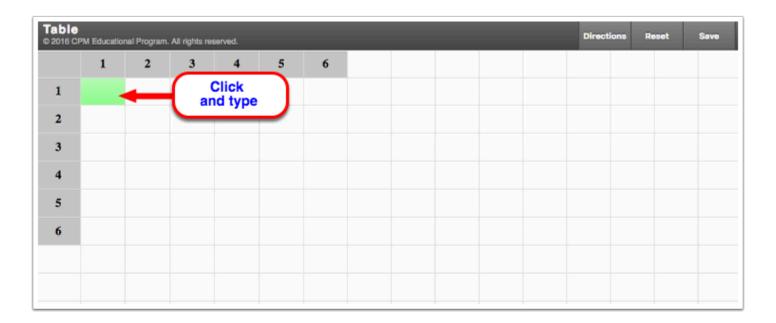
INT2 7.2.1: 7-67 Student eTool (CPM)

Click on the link below to access eTool.

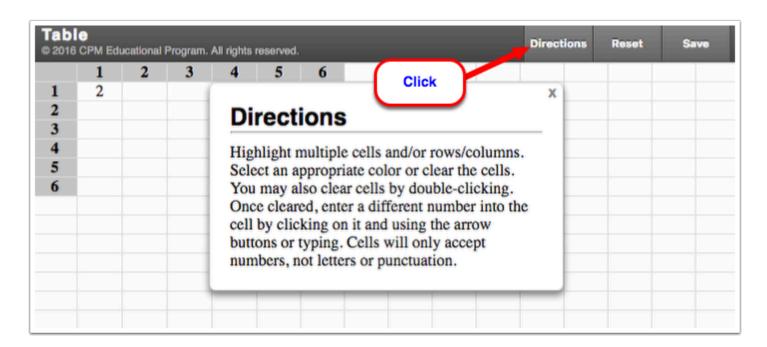
7-67 Student eTool (CPM)

Use this eTool to create a table for part (a) of problem 7-67.

Click on a cell and enter the value.



Click on "Directions" for more information.





INT2 8.2.1: 8-24 Student eTools (Desmos)

Click on the links below to access eTools.

8-24f1 Student eTool (Desmos)

8-24f2 Student eTool (Desmos)

8-24f3 Student eTool (Desmos)

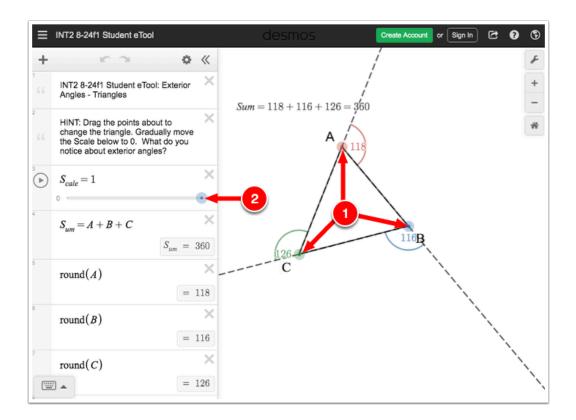
8-24f4 Student eTool (Desmos)

Use these eTools to help students confirm their conjectures about the exterior angles of various polygons.

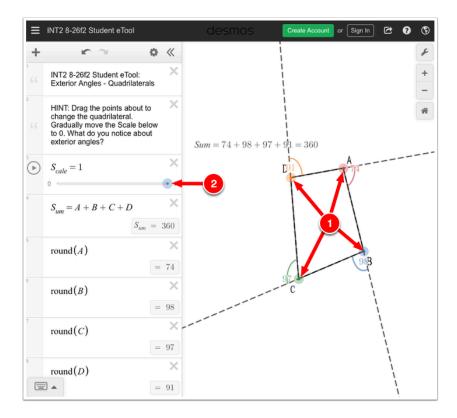
With these eTools, students will notice that the sum of the exterior angles of a convex polygon will be 360° regardless of whether or not the polygon is regular.

8-24f1: Exterior Angles - Triangles

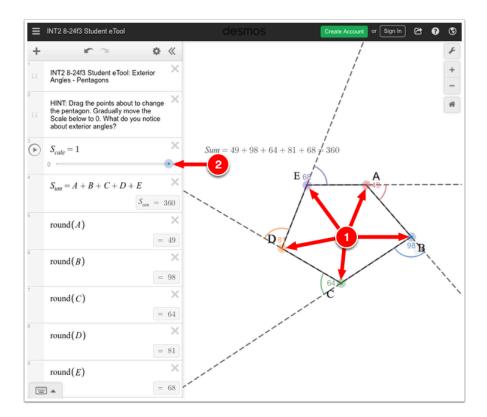
- 1. Click the colored points and drag to change the triangle.
- 2. Click the BLUE point (slider) and drag horizontally to change the scale of exterior angles.



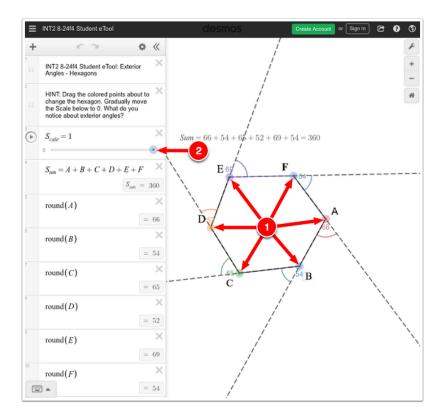
- 8-24f2: Exterior Angles Quadrilaterals
- 1. Click the colored points and drag to change the quadrilateral.
- 2. Click the BLUE point (slider) and drag horizontally to change the scale of exterior angles.



- 8-24f3: Exterior Angles Pentagons
- 1. Click the colored points and drag to change the pentagon.
- 2. Click the BLUE point (slider) and drag horizontally to change the scale of exterior angles.



- 8-24f4: Exterior Angles Hexagons
- 1. Click the colored points and drag to change the hexagon.
- 2. Click the BLUE point (slider) and drag horizontally to change the scale of exterior angles.



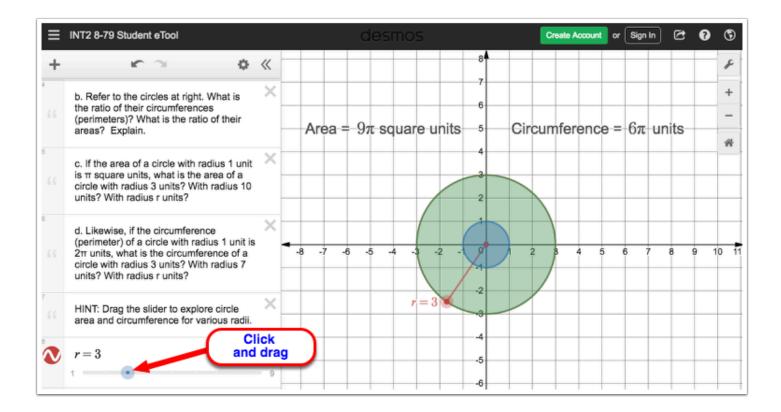
INT2 8.4.1: 8-79 Student eTool (Desmos)

Click on the link below to access eTool.

8-79 Student eTool (Desmos)

Use this eTool to explore the Area and Circumference of a Circle.

Click on the BLUE point (slider) and drag horizontally to change the length of the radius.

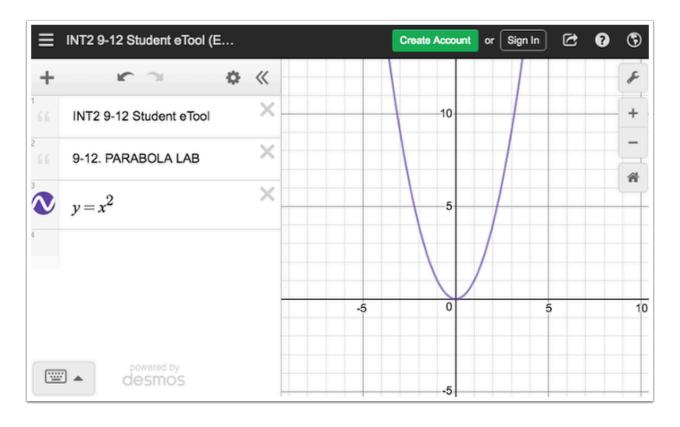


INT2 9.1.2: 9-12 Student eTool (Desmos)

Click on the link below to access eTool.

9-12 Student eTool (Desmos)

Use this eTool to complete the task in problem 9-12.

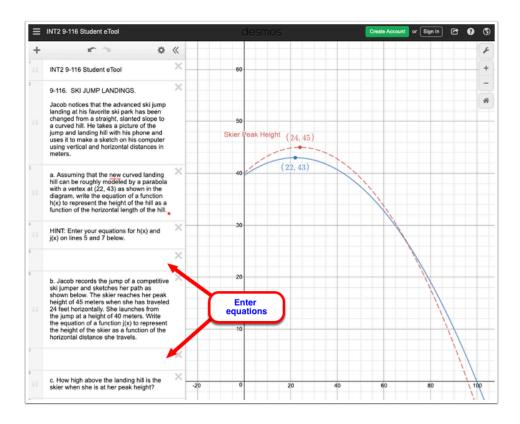


INT2 9.3.4: 9-116 Student eTool (Desmos)

Click on the link below to access eTool.

9-116 Student eTool (Desmos)

Use this eTool to complete problems 9-116 and 9-117.



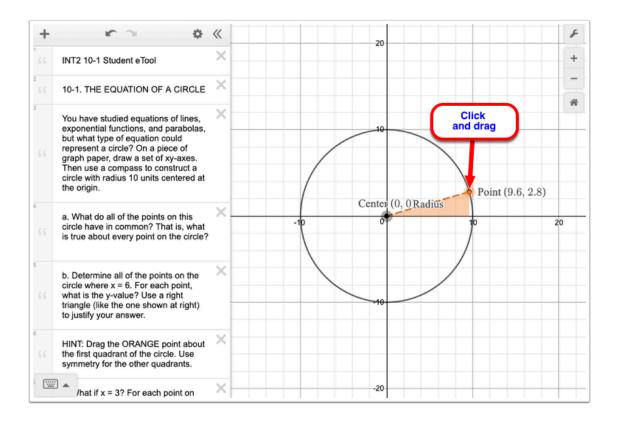
INT2 10.1.1: 10-1 Student eTool (Desmos)

Click the link below to access to eTool.

10-1 Student eTool (Desmos)

Use this eTool to explore the equation of a circle.

1. Click the ORANGE point and drag to move.



INT2 10.1.2: 10-15 Student eTool (CPM)

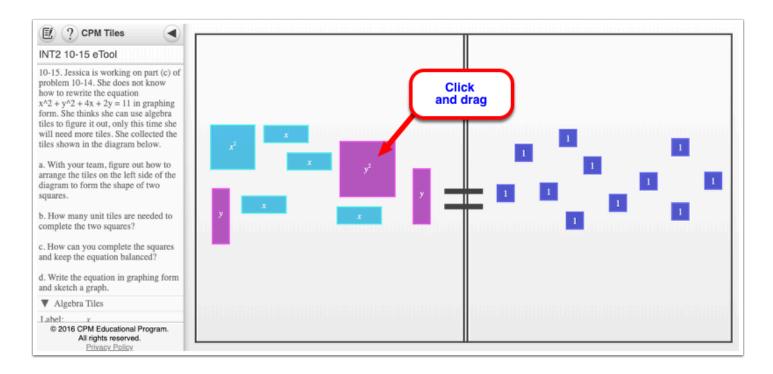
Click on the link below to access eTool.

10-15 Student eTool (CPM)

Use the algebra tiles to help you rewrite the given equation below.

$$x^2 + y^2 + 4x + 2y = 11$$

1. Click on each tile and drag to the desired location.





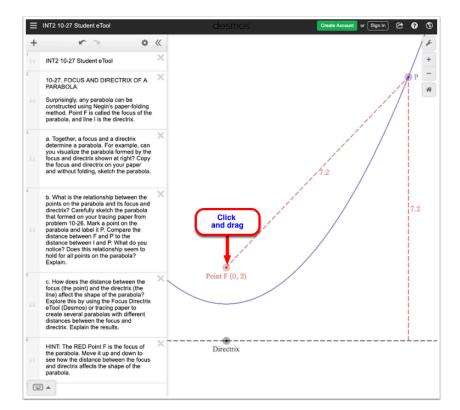
INT2 10.1.3: 10-27 Student eTool (Desmos)

Click on the link below to access eTool.

10-27 Student eTool (Desmos)

This eTool is designed to move the focus and directrix of a parabola and observe the effect on the shape of the resulting parabola.

1. Click on the RED point (F) and drag up and down to see the distance between the focus and directrix affects the shape of the parabola.





INT2 11.1.2: 11-16 Student eTool (CPM)

Click on the link below to access eTool.

11-16 Student eTool (CPM)

Use this eTool to build 3D block solids.

1. Click on each square to add or remove blocks.

