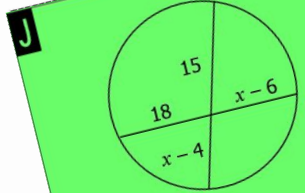
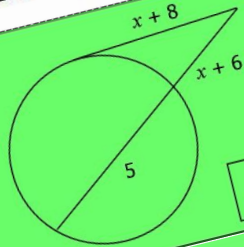


PYRAMID SUM Puzzle

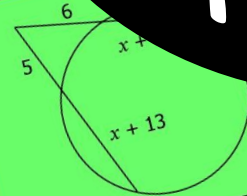
SEGMENT LENGTHS IN CIRCLES Pyramid Puzzle



14

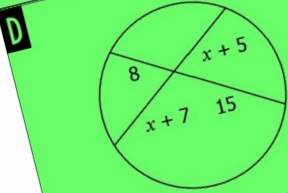


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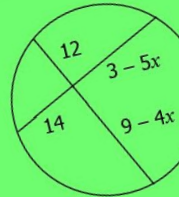


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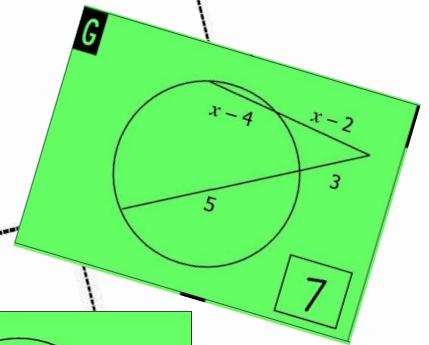
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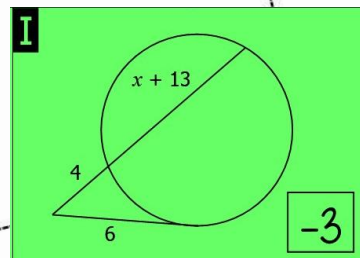
11



-5



7



-3

SEGMENT LENGTHS *in circles*

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SEGMENT LENGTHS IN CIRCLES

Pyramid Sum Puzzle

Objective: To practice solving problems with segment lengths in circles. This includes secants and chords that intersect on the inside of the circle, secants and chords that intersect on the outside of the circle, and secant and tangent that intersect on the outside of the circle. Some examples require that students solve a quadratic equation.

Activity Directions:

- 1) Print enough templates and equations for each student (pages 3-4 of this document). I like to do the template on colored paper and the equations on white paper to make the final product pop!
- 2) Students solve each problem and place the solutions in the small boxes. I recommend having them show all work on a separate sheet of notebook paper.
- 3) Students cut the problems out and arrange the top row according to the letters on the template. Then, they must arrange the remaining boxes so that each solution is the sum of the two solutions directly above it. Paste all pieces down.

An answer key is provided on page 5. This assignment is VERY easy to grade with the box letters and solutions!

SEGMENT LENGTHS IN CIRCLES *Pyramid Puzzle* Name: _____

J	F		

SEGMENT LENGTHS IN CIRCLES *Pyramid Puzzle*

Directions: For each problem, solve for x . Record your answers in the boxes. Cut out the boxes and paste J, F, C, and H on the top row (in that order) on the template. Paste the remaining boxes so that the solution to each problem is the sum of the two solutions directly above it.

A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>
E <input type="checkbox"/>	F <input type="checkbox"/>	G <input type="checkbox"/>	H <input type="checkbox"/>
I <input type="checkbox"/>	J <input type="checkbox"/>		

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