

CUT & PASTE Puzzle

Area & Circumference of Circles

Directions: Find the area and circumference of each circle. Round each answer to the nearest tenth. Record your answers on each square. Then, cut the squares apart so the edges match with corresponding answers. Paste the squares on the template in the correct order. If an answer cannot be found, it is possible that it is an edge piece.

A 28.3 m^2
109 m
27 m
 $C =$

B 452.4 m^2
18.8 m
4.5 m
 $A =$

C 50.2 m^2
34.6 m
13 m
 $C =$

D 962.1 m^2
37.7 m
30 m
 $A =$

E 153.9 m^2
12 m
 $C =$

F 380.1 m^2
69.1 m
5.5 m
 $A =$

G 80.8 m^2
 $C =$

H 80.8 m^2
69.1 m
5.5 m
 $A =$

AREA & CIRCUMFERENCE of circles

Created by: ALL THINGS ALGEBRA®

Area & Circumference of Circles CUT-OUT PUZZLE!

Objective: Students will practice finding the area and circumference of circles. Some problems give a radius while others give a diameter. There are **two versions included:** one where students use the pi button on the calculator and round their answers to the nearest tenth, and another where they use 3.14. Use the one that fits the needs of your students.

Directions:

- 1) Copy enough puzzles and blank templates for each student. I typically put the problems on white paper and the template in color. This is optional and only makes it pop!
- 2) On a separate sheet of paper, students begin finding the area and circumference of each circle. Each box is lettered so it makes it easy for students to organize their work. As they do this, they should record their answers in the boxes.
- 3) After solving, they cut out the squares and begin arranging them so the edges meet. If they need some help with this, remind them that the box letters must face up. For even more help, I sometimes tell them which box goes in the upper left corner to get them started. Problems in which no answer can be found are edge pieces.
- 4) Once they have the squares arranged, they can paste them down on the template. I have my students staple their work to their puzzle and I collect as a classwork grade. Using the box letters makes it very easy to grade!

