


For the  of Math = MATHentines 2-D

_____ is loved + important!!!

Choose two different colors of paper. On one piece, use a safety compass to draw a circle.

| | $d \div 2 = r$ | πr^2 | $2d$ or $2\pi r$ | |
|--------|----------------|-----------|------------------|---------------|
| | Diameter | radius | Area | Circumference |
| Circle | _____ | _____ | _____ | _____ |

On the other piece of paper, use a ruler to draw a square that side lengths are congruent to the diameter.

| | side measurements | Area | perimeter |
|--------|-------------------|-------|-----------|
| Square | _____ | _____ | _____ |

Figure out how to create a heart with the circle and square. Glue the hearts on paper and label the properties of each shape. Put an "I" next to your heart and something or someone you love after.

How did you create your heart? _____

How would you compute the area of your heart? _____

Area of heart _____

How would you compute the distance around heart? _____

Distance around heart _____

Does the area change when the two shapes become a heart? _____ because _____

Does the perimeter change when the two shapes become a heart? _____ because _____

Supplies needed

Lots of different color paper

Scissors

Glue or tape

Large pieces of paper to glue the heart

Rulers

Safety compass