

For the  of Math = MATHentines 2-D



\_\_\_\_\_ loves to \_\_\_\_\_

Create three different size MATHentines!! Create a poster of things you LOVE!!

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

	$\pi r^2 = 3.14 \cdot r \cdot r$	$2\pi r = 2 \cdot 3.14 \cdot r$
<b>Diameter <math>\div 2 =</math> radius</b>	<b>Area</b>	<b>Circumference</b>

Circle \_\_\_\_\_

On the other piece of paper, use a ruler to draw a square that side lengths are congruent (equal) to the diameter.      **side measurements**      **Area =  $s^2 = s \cdot s$**       **perimeter =  $4s$**

Square \_\_\_\_\_

**TOTAL Mathentine area = \_\_\_\_\_**      **total Distance around \_\_\_\_\_**

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

	$\pi r^2 = 3.14 \cdot r \cdot r$	$2\pi r = 2 \cdot 3.14 \cdot r$
<b>Diameter <math>\div 2 =</math> radius</b>	<b>Area</b>	<b>Circumference</b>

Circle \_\_\_\_\_

On the other piece of paper, use a ruler to draw a square that side lengths are congruent (equal) to the diameter.      **side measurements**      **Area =  $s^2 = s \cdot s$**       **perimeter =  $4s$**

Square \_\_\_\_\_

**TOTAL Mathentine area = \_\_\_\_\_**      **total distance around \_\_\_\_\_**

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

	$\pi r^2 = 3.14 \cdot r \cdot r$	$2\pi r = 2 \cdot 3.14 \cdot r$
<b>Diameter <math>\div 2 =</math> radius</b>	<b>Area</b>	<b>Circumference</b>

Circle \_\_\_\_\_

On the other piece of paper, use a ruler to draw a square that side lengths are congruent (equal) to the diameter.      **side measurements**      **Area =  $s^2 = s \cdot s$**       **perimeter =  $4s$**

Square \_\_\_\_\_

**TOTAL Mathentine area = \_\_\_\_\_**      **Total distance around \_\_\_\_\_**

Glue your hearts to a piece of construction paper. Then look through magazines and cut out letters to spell things you love, love to do, or words that reflect you!! Cut out pictures of things you love. Cut letters to spell your name!! Glue all of this to create a MATHentine poster!!

**You are (AMAZING)<sup>3</sup>...never forget it!!**



Figure out how to create a heart with the circle and square. Glue the hearts on paper and label the properties of each shape.

How did you create your mathentine? \_\_\_\_\_

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How would you compute the area of your mathentine? \_\_\_\_\_

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Area of mathentine \_\_\_\_\_

How would you compute the distance around your mathentine? \_\_\_\_\_

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Distance around your mathentine \_\_\_\_\_

Does the area change when the two shapes become a mathentine? \_\_\_\_\_ because \_\_\_\_\_

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Does the perimeter change when the two shapes become a mathentine? \_\_\_\_\_ because \_\_\_\_\_

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