Frayer Model

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| Definition | Picture**Word** |
| Examples | Nonexamples |

Frayer Model: Area of Polygons

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| Definition | Picture**Area of Polygons** |
| Examples | Nonexamples |

**Relationship to Area of Parallelograms (printable worksheet)**

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|  | **Formula** | **Relationship to the Area of a Parallelogram** |
| **Area of a Rectangle** |  | Image of a rectangle in relation to a parallelogram |
| **Area of a Parallelogram** |  |  |
| **Area of a Triangle** |  | Image of a triangle in relation to a parallelogram |
| **Area of a Trapezoid** |  | Image of a trapezoid in relation to a parallelogram |
| **Area of a Circle** |  | [Circle Template](https://msair.sharepoint.com/%3Ab%3A/r/sites/Ext4/NCII/Shared%20Documents/Virtual%20Intervention%20Delivery_COP/Final%20Products/Rob%20Stroud/circle%20template.pdf?csf=1&web=1&e=AGIkze) |

**Circle and Parallelogram Activity**

Follow the directions from Slides 24–39 when completing this activity. You will complete this activity independently and then submit your work and a photo of your product electronically through e-mail and/or our virtual classroom (e.g., Google Classroom, Seesaw).

1. Construct a circle (either print a template, use a compass, or trace an object such as a bowl or lid to a container).
2. List all the fact pairs for 360 below.

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Divide the circle into an equal number of sections, using one pair of factors for 360.

1. Color each half of the circle a different color. Take a picture of your circle.
2. Use $A=πr^{2}$ to find the area of the circle and record your answer below.

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| $$A=πr^{2}$$ |

1. Carefully cut out the individual sections of the circle.
2. Arrange the sections of the circle to form a figure similar to a parallelogram.
	1. What do you notice about the base of the parallelogram in relation to the original circle?

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* 1. What do you notice about the height of the parallelogram in relation to the original circle?

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1. Using the relations, find the area of your parallelogram.

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* 1. How does the area of the parallelogram you calculated compare to the area of the circle?

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1. Watch this video on you tube: <https://www.youtube.com/watch?v=YokKp3pwVFc>
2. Submit this worksheet and a photo of your circle and parallelogram to your teacher by \_\_\_\_\_\_.