## Wednesday, February 6, 2019

- Warm-up
- Trace the shape you were given on your warmup paper
- Identify everything you can about that shape
- Both name and identifying factors
- Quadrilaterals


## Objectives

- Content: I will use slope and distance to classify quadrilaterals.
- Social: I will work with my group, involving and encouraging everyone.
- Language: I will clearly write my reasoning for the classification of the quadrilaterals.


Brain Break
Celebration

$$
<15 \text { seconds }
$$

can include clean music

Quadrilaterals Chart \& identifying factors
1: perpencimerar Quadribterals
4 sides $\rightarrow$ sumlef angles $=360 \frac{1}{p+p i t}$
apole
trapezoid
exacty one parllel
paides

Reminder:

$$
\left(x_{1}, y_{1}\right)\left(x_{2}, y_{2}\right) \text { slue }=\frac{\left(y_{2}-y_{1}\right.}{x_{2}-x_{1}}
$$

-Parallel Lines: Same slope

- Perpendicular Lines: opposite (one one-) reciprocals (flipped) -Length (distance): $d=\sqrt{\left.\left(y_{2}-y_{1}\right)^{2}+\left(\sqrt{x_{2}-\bar{x}}\right)\right)^{2}}$


## Free Time


 $\begin{aligned} \text { Resule } x+ & =\sqrt{4+25} \\ & =\sqrt{29}\end{aligned}$

