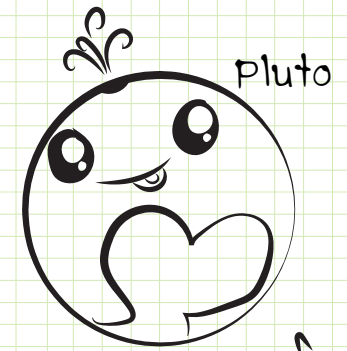


Planet Orbit Calculations

Patterns in our Sky



How many degrees around it's orbit does each planet move in one day?

Just set up the Premiere. You will use computer programming to solve the problem For now just set up the problem.

Planetary Orbit data

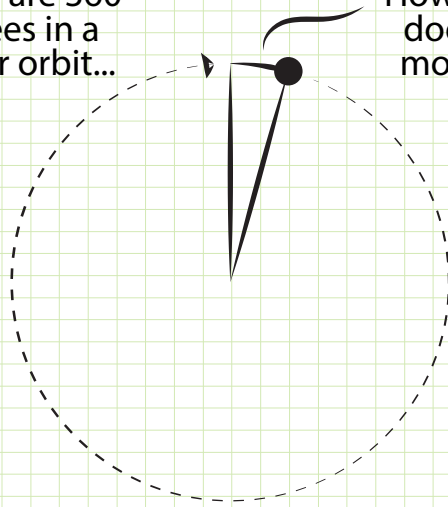
Mercury	88 days
Venus	225 days
Earth	365 days
Mars	687 days
Jupiter	4,332 days
saturn	10,785 days
Uranus	30,688 days
Neptune	60,182 days
Pluto	90,520 days

This is how long it takes for each planet to orbit the sun one time!

Here's the question:

If there are 360 degrees in a circular orbit...

How many Degrees does each planet move in one day?



Degrees per day is:

$$= \frac{\text{Degrees in a circle}}{\text{Days to Orbit}}$$

STEMTaught®

Name:

Teacher's Edition

Is Pluto a planet too?

Pluto is a dwarf planet, but that is still a type of planet. Pluto is a little smaller than our moon.

<p>Mercury</p> <p>How many degrees mercury travels in it's orbit per day is:</p> $? = \frac{360}{88}$	<p>Venus</p> $\frac{360}{225}$	<p>Earth</p> $\frac{360}{365}$	<p>Mars</p> $\frac{360}{687}$
<p>Jupiter</p> $\frac{360}{4,332}$	<p>saturn</p> $\frac{360}{10,785}$	<p>Uranus</p> $\frac{360}{30,688}$	<p>Neptune</p> $\frac{360}{60,182}$

<p>Pluto</p> $\frac{360}{90,520}$
