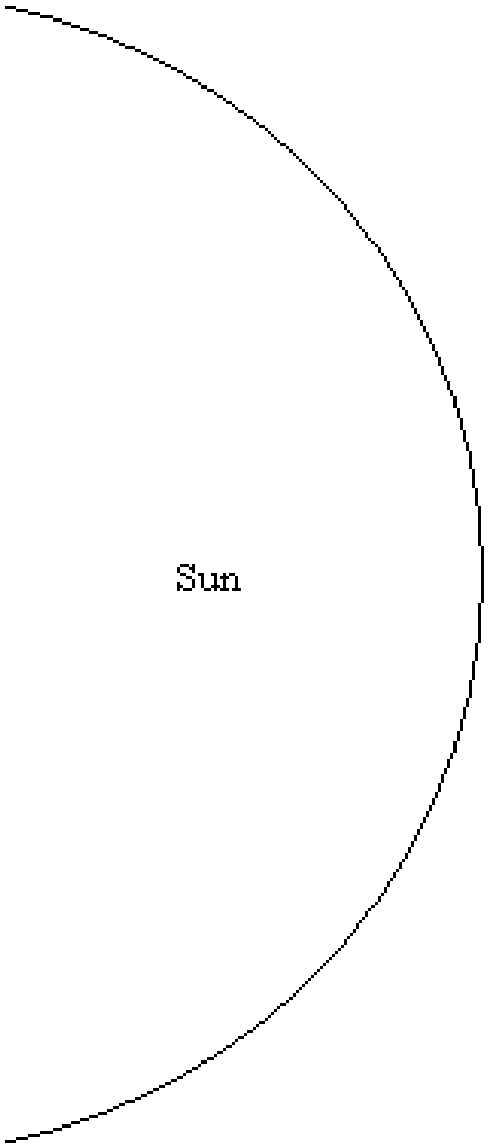
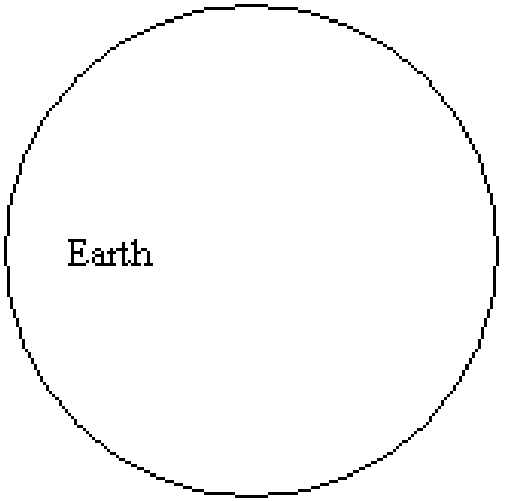


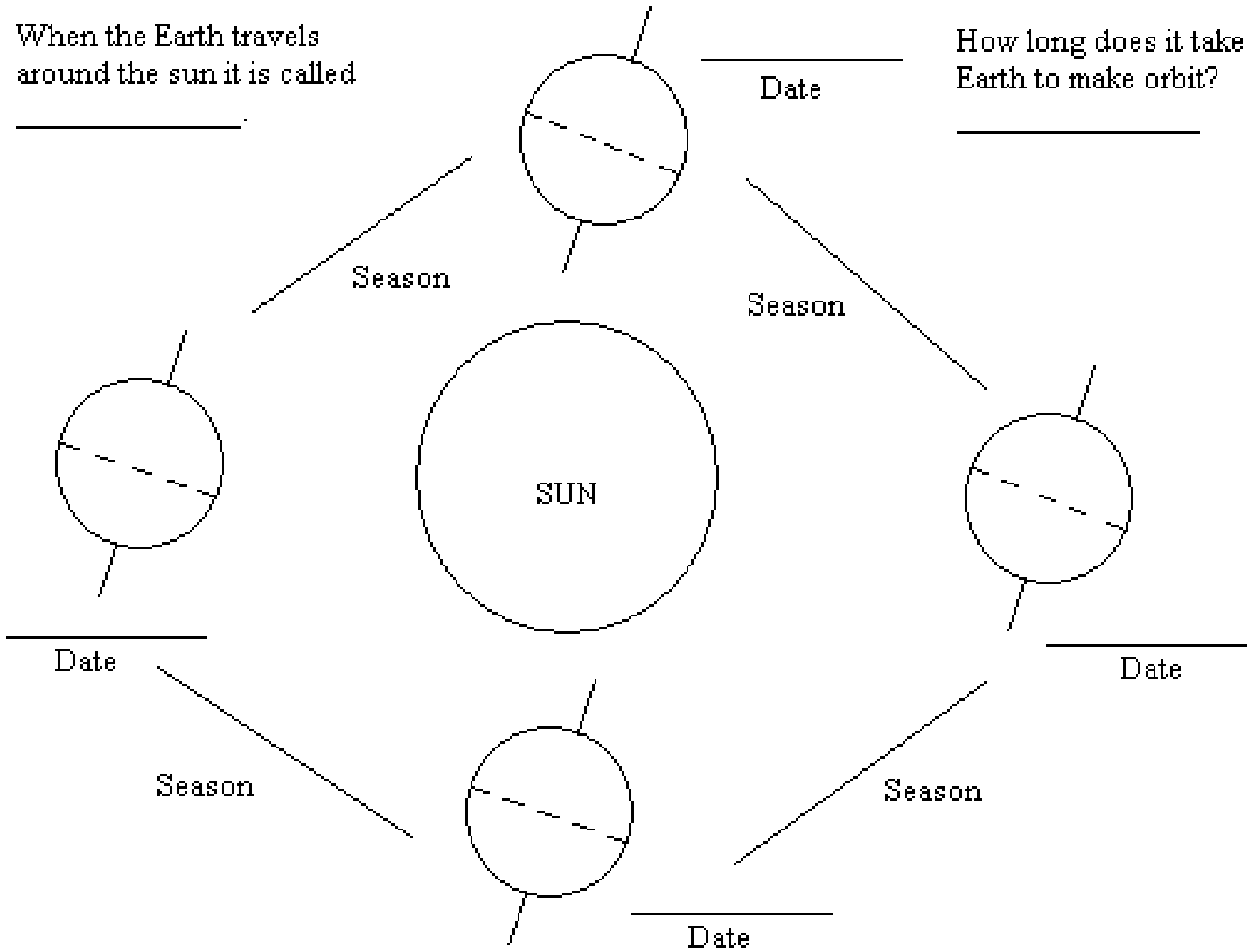
Fill in and label the following:
Axis and degrees of tilt, Day, Night, shade in Night, equator, rotation and direction



How long does it take Earth to make one complete rotation? _____

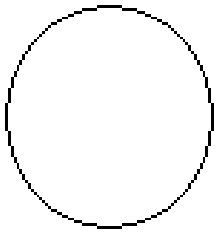
When the Earth travels around the sun it is called _____.

How long does it take Earth to make orbit? _____

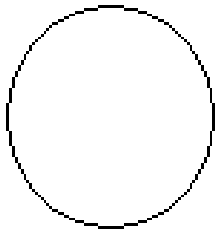


How long does it take for one complete cycle of the moon?

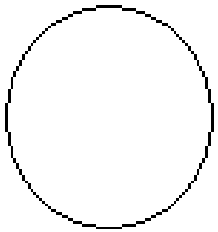
_____



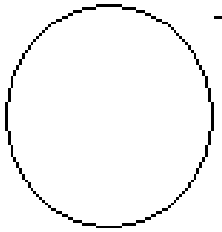
_____



_____



_____

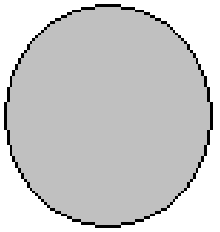


Full Moon

_____

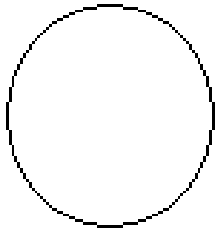
Moon Cycles

Write in the names of the following moon cycles and then shade in the appropriate shadow.

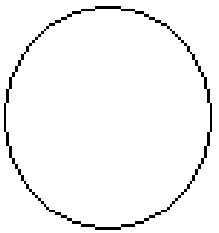


New Moon

_____



_____



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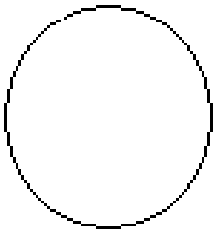

_____

How long would it take to get to the nearest star traveling at the speed of sound?

(The speed of sound is 761 mph, which is Mach 1)

186,000 Miles per second
X 60 seconds
=11,160,000 Miles per minute

11,160,000 Miles per minute
X 60 minutes
=669,600,000 Miles per hour

669,600,000 Miles per hour
X 24 hour
=16,070,400,000 Miles per day

16,070,400,000 Miles per day
X 365.25 days
= 5,869,713,600,000 Miles per year
(or 9.5 trillion kilometers)

Distance to the nearest star, Proxima Centauri, is 4.35 Light years
5,869,713,600,000 Miles per year
X 4.35 Light years
=25,533,254,160,000 Miles

25,533,254,160,000 Miles
/ 761 Miles per hour
=33,552,239,369 hours

33,552,239,369 hours
/ 24 hours
=1,398,009,974 days

1,398,009,974 days
/ 365.25 days
=***3,827,543 years***