- 14. What does this motion cause?
- A. Day and night.
- 15. What is the other motion of the earth?
- A. A revolution round the sun
- 16. How long does it take the earth to go round the sun? two unequal parts. A. A year, or about three hundred and sixty-



- 17 What does this motion cause?
- A. The changes of the seasons.

## LESSON III. MAPS AND CIRCLES.

- 18. What is a Man?
- A. A picture of the earth's surface.
- Toward the top of a map is North, the bottom South, the right hand East, and the left hand West .-
  - 19. What do the lines drawn on maps represent?
- A. Parts of imaginary circles\* extending on
- 20. Why do you say imaginary circles?
- A. Because they are not actually drawn on the earth; but are only imagined or supposed to be
  - 21. How are circles supposed to be divided?
- A. Into three hundred and sixty equal parts called degrees. (Degrees are thus marked, (°).)
  - 22. What is a semicircle?
  - A. Half of a circle.
  - A. As Great Circles and Small Circles.
  - 24. What is a Great Circle of the earth?

- 25. Which are the Great Circles of the earth?
- A. The Equator and the Meridian Circles
- 26. What is a Small Circle of the earth?
- A. One that divides the earth's surface into
  - 27. Which are the Small Circles of the earth ?
  - A. The Tropics, Polar Circles, and Parallels.

## LESSON IV.

## CIRCLES OF THE EARTH DEFINED.

- 98 What is the Founter?
- A. A great circle on the earth's surface, everywhere equally distant from the poles.
  - 29. What are the Meridian Circles?
- A. They are great circles that extend north and south round the globe.
  - 30 What is a Meridian or Maridian Line?
- A. It is the part of a meridian circle which
  - 31. How many meridians are commonly drawn on globes?
- A. Twenty-four; but every place is supposed to have a meridian passing through it.
- 32. What are the Parallels?
- A. They are small circles passing round the earth parallel\* to the equator.
  - 33. What are the Tropies?
- A. They are two parallels, one north, and the other south, of the equator, and each at a distance
  - 34. What are the names of the Tropics?
- A. That north of the equator is called the Tropic of Cancer; that south of it, the Tropic of
  - 35. What are the Polar Circles?
- A. Two circles surrounding the poles, each at a distance of 2310 from the pole it surrounds.
  - 36. What are the Polar Circles called?
- A. The one about the North Pole is called the