

A

1. Reduce $51^{\circ} 23' 41''$ to seconds.
2. In $20,836''$ how many degrees?
3. Find $\frac{2}{7}$ of the circumference of a circle.
4. Multiply $67^{\circ} 23' 17''$ by 15.
5. Divide $84^{\circ} 19' 45''$ by 15.
6. From $57^{\circ} 4' 29''$ take $41^{\circ} 17' 54''$.
7. What is latitude?
8. If one place is situated 59° north of the equator, and another 34° north, what is their difference in latitude?
9. If one place is situated 26° north of the equator, and another 11° south, what is their difference in latitude?
10. The latitude of Rome is $41^{\circ} 53' 54''$ N., and that of Paris $48^{\circ} 51' 6''$ N. Find their difference in latitude.
11. The latitude of London is $51^{\circ} 30' 49''$ N., and that of New York is $40^{\circ} 42' 43''$ N. Find their difference in latitude.
12. The latitude of North Cape is $71^{\circ} 10'$ N., and that of Cape of Good Hope is $33^{\circ} 55' 15''$ S. Find their difference in latitude.

B

LONGITUDE AND TIME.

1. What is a meridian?
2. What is the English standard meridian? How is it marked in degrees? **Ans.** Greenwich, 0° .
3. What is longitude? What is East longitude? West longitude? If two places are on opposite sides of the standard meridian, how is their difference in longitude found?
4. How many hours does the earth take to turn on its axis, or describe a circumference?