

## QUESTIONS,

## EXERCISING THE PROBLEMS ON THE TERRESTRIAL GLOBE.

1. What inhabitants of the earth have the same length of days as those of Philadelphia?
2. What inhabitants of the earth have the same seasons of the year as those of London?
3. When it is 10 o'clock in the evening at Stockholm, what inhabitants have the same hour?
4. What is the nearest distance between New York and the Cape of Good Hope?
5. When it is noon at Philadelphia, what inhabitants of the earth have midnight?
6. When it is 10 o'clock in the morning at London, where is it 10 o'clock in the evening?
7. What is the sun's longitude (commonly called the sun's place in the ecliptic) on the 15th of April?
8. What day of the year is of the same length as the 15th of April?
9. How much longer is the 5th of May at New York than at Quito?
10. When it is noon at London, at what place is the sun rising and setting, and where is it midnight?
11. Are the clocks at Philadelphia faster or slower than those at London, and how much?
12. What is the difference of latitude between Cape North and Cape Matapan?
13. What is the difference of longitude between Philadelphia and Constantinople?
14. What is the distance between New York and London in English miles?
15. What hour is it at London when it is 4 in the evening at Calcutta?
16. At what time does the sun rise and set at Archangel on the 15th of March, and what is the length of the day and night?
17. If the sun set at 7 o'clock, at what time does it rise, and what is the length of the day and night?
18. How many English miles must I travel westward from London that my watch may be six hours too fast?
19. What place upon the globe has the greatest longitude, the least longitude, no longitude, and every longitude?
20. What inhabitants of the earth in the course of 12 hours will be in the same situation as their Antipodes?
21. At what places on the globe can two ships sail directly from each other, and still sail the same point of the compass?
22. How many English miles must I travel eastward from Philadelphia, that my watch may be 7 hours too slow?
23. Suppose a person could start from Philadelphia precisely at noon on Monday, and keep pace with the sun round the globe, at what place would he first be told it was Tuesday noon?
24. There is a town in Norway where the longest day is five times the length of the shortest night, what is its name?
25. When the sun is setting to the inhabitants of Hartford on the 4th of April, where is it rising, and where midnight?
26. As the sun never goes north of the tropic of Cancer,—or but 23½ degrees north of the equator,—how can you account for its rising, in our latitude, during the summer months, nearly in the north-east, and setting nearly in the north-west?