**Sample Answer Exercise 1. Locations of Earth**

**Part 1:** Use a globe, the internet, or an Atlas to provide locations (latitude and longitude) for at least 15 of the places listed below, including *your home city*. If your home city is not included below, please add it on the blank line. Report your answers to a **minimum of degrees and minutes**.

Example:

|  |  |  |
| --- | --- | --- |
| ***City*** | ***Latitude*** | ***Longitude*** |
| Mumbai, India | 19°04′ N | 72°52′ E |

Make sure you write latitude and longitude in degrees and minutes as shown in example above and **NOT in decimal degrees**. Also, do not forget to write the appropriate direction for latitude (North or **S**outh) and longitude (East or West) of a place.

|  |  |  |  |
| --- | --- | --- | --- |
|  | ***Cities*** | ***Latitude*** | ***Longitude*** |
| 1 | Sachse, TX | 32°58′ N | 96°35′ W |
| 2 | Houston, TX | 29°45′ N | 95°22′ W |
| 3 | Dallas, TX | 32°46′ N | 96°47′ W |
| 4 | Richardson, TX | 32°56′ N | 96°43′ W |
| 5 | Plano, TX | 33°0′ N | 96°41′ W |
| 6 | Albany, TX | 32°43′ N | 99°17′ W |
| 7 | McAllen, TX | 26°12′ N | 98°13′ W |
| 8 | Grand Prairie, TX | 32°39′ N | 97°1′ W |
| 9 | McKinney, TX | 33°11′ N | 96°36′ W |
| 10 | Fremont, CA | 37°32′ N | 121°59′ W |
| 11 | Queens, NY | 40°44′ N | 73°47′ W |
| 12 | Beaumont, TX | 30°5′ N | 94°6′ W |
| 13 | Austin, TX | 30°16′ N | 97°44′ W |
| 14 | Wylie, TX | 33°0′ N | 96°32′ W |
| 15 | Seattle, WA | 47°36′ N | 122°19′ W |
| 16 | New Orleans, LA | 29°56′ N | 90°4′ W |
| 17 | College Station, TX | 30°35′ N | 96°18′ W |
| 18 | Celina, TX | 33°19′ N | 96°47′ W |
| 19 | Atlanta, GA | 33°47′ N | 84°26′ W |
| 20 | Arlington, TX | 32°42′ N | 97°6′ W |

**Part 2:** Use your textbook to review latitude and longitude and their significance. If you were to make a judgement call on the importance of these two phenomena, which would be more significant? Explain.

**Part 3:** Imagine you are a businessperson or member of the military and you need to plan a mission for an airplane to deliver a package to a specific location on the planet. How do you think latitude and longitude will impact the cost and other logistical considerations for making your delivery?