**Unit 4, Lesson 3 & 4 Quiz Review**

**Multiple Choice**

*Identify the choice that best completes the statement or answers the question.*

**\_\_\_\_ 1.** The table below describes some weather conditions at two different weather stations.

|  |  |  |
| --- | --- | --- |
|  | **Station 1** | **Station 2** |
| **Temperature** | 10 °C (50 °F) | 20 °C (68 °F) |
| **Precipitation** | 3 cm | 2 cm |
| **Wind** | 3 km/h west | 8 km/h east |
| **Cloud cover** | overcast | mostly cloudy |

Which statement is correct?

|  |  |
| --- | --- |
| **A** | Station 1 is experiencing more rain than station 2. |
| **B** | Both stations are experiencing freezing conditions. |
| **C** | Station 1 is experiencing stronger winds than station 2. |
| **D** | Both stations have wind traveling in the same direction. |

**\_\_\_\_** **2.** Sophia’s science teacher asked her to record a description of the weather at her home every evening for a week. What could Sophia include in her description of the weather?

|  |  |
| --- | --- |
| **A** | dry air composition |
| **B** | animal activity |
| **C** | soil moisture |
| **D** | wind speed |

**\_\_\_\_ 3.** Air can be dry or moist, depending on how much water vapor it holds. Humidity is a measure of the amount of water vapor in air. Which tool measures humidity?

|  |  |
| --- | --- |
| **A** | anemometer |
| **B** | barometer |
| **C** | hygrometer |
| **D** | rain gauge |

**\_\_\_\_** **4.** Marie lives in Tallahassee, Florida. She put the instrument shown below just outside her house. She recorded the air temperature and air pressure every hour on the first day of winter.



Which of the following **best** describes what Marie has recorded?

|  |  |
| --- | --- |
| **A** | how much rain fell on the first day of winter  |
| **B** | the weather conditions in Florida during winter |
| **C** | the type of winds Florida has on the first day of winter |
| **D** | the weather conditions at her house on the first day of winter |

**\_\_\_\_** **5.** Caydence wants to compare the weather conditions at her school each day during the week. She decides to measure and record weather data each day at noon. Which of the following measurements would be **least** useful to report?

|  |  |
| --- | --- |
| **A** | humidity |
| **B** | elevation |
| **C** | wind speed |
| **D** | air temperature |

**\_\_\_\_ 6.** Precipitation occurs when water moves from the atmosphere to Earth’s surface. The water can be in liquid or solid form. Which two forms of precipitation consist of solid water?

|  |  |
| --- | --- |
| **A** | hail and rain |
| **B** | hail and sleet |
| **C** | rain and snow |
| **D** | sleet and rain |

**\_\_\_\_** **7.** Tyler notices that the air pressure is rising. Based on this observation, which type of weather does Tyler expect?

|  |  |
| --- | --- |
| **A** | fair weather |
| **B** | windy weather |
| **C** | stormy weather |
| **D** | unstable weather |

**\_\_\_\_ 8.** Mr. Cottingham’s class monitors the weather as part of an investigation. If students want to know how the amount of water in the air changes, which factor should they measure?

|  |  |
| --- | --- |
| **A** | air pressure |
| **B** | humidity |
| **C** | temperature |
| **D** | wind speed |

**\_\_\_\_** **9.** Addison visits a coastal town that lies between the ocean and the mountains. However, from Addison’s location, she cannot view the beach or the mountains. It is early evening, and the weather is clear and calm. Addison feels a breeze that blows eastward. In which direction is the beach?

|  |  |
| --- | --- |
| **A** | east |
| **B** | north |
| **C** | south |
| **D** | West |

**\_\_\_\_ 10.** The following map shows the weather conditions in a coastal area.



At which point is relative humidity the highest?

|  |  |
| --- | --- |
| **A** | point 1 |
| **B** | point 2 |
| **C** | point 3 |
| **D** | point 4 |

**\_\_\_\_ 11.** Scientists study many factors that allow them to predict weather. Which factor **most** **directly** affects the movement of air?

|  |  |
| --- | --- |
| **A** | air pressure |
| **B** | precipitation |
| **C** | relative humidity |
| **D** | temperature |

**\_\_\_\_** **12.** Laney packs a family preparedness kit for use in the event of a hurricane. Why should Laney include a portable radio and batteries in her kit?

|  |  |
| --- | --- |
| **A** | Hurricanes commonly cause a break in water lines, which may make the water supply undrinkable. |
| **B** | Hurricanes commonly cause a break in electrical lines, and Laney’s family will need to listen to emergency announcements. |
| **C** | Hurricanes commonly cause breaks in gas lines, which may prevent Laney’s family from heating food. |
| **D** | Hurricanes commonly cause flooding, and Laney’s family will need to find the nearest evacuation route. |

**\_\_\_\_ 13.** The following map shows the location of air masses in a coastal region.



At which point is rain **most likely** falling?

|  |  |
| --- | --- |
| **A** | point 1 |
| **B** | point 2 |
| **C** | point 3 |
| **D** | point 4 |

**\_\_\_\_ 14.** The following diagram shows a location where two air masses meet.



What is the weather like at this type of air boundary?

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | cloudy and rainy | **C** | clear and warm |
| **B** | clear and cold | **D** | windy and cold |

**Unit 4, Lesson 3 & 4 Quiz Review**

**Answer Section**

**MULTIPLE CHOICE**

 **1.** A

 **2.** D

 **3.** C

 **4.** D

 **5.** B

 **6.** B

 **7.** A

 **8.** B

 **9.** A

 **10.** D

 **11.** A

 **12.** B

 **13.** B

 **14.** A