

Air Pressure and Weather Fronts Assessment

Name: _____ Date: _____

Part I: Matching

Directions: Read each definition carefully and match it to the correct term by writing the letter on the blank.

- | | |
|---------------------------|---|
| 1. _____ high pressure | A. this front brings cooler temperature and stormy weather |
| 2. _____ low pressure | B. colder air sinks with this pressure system and brings clear, dry conditions |
| 3. _____ stationary front | C. warmer temperatures follow this weather front |
| 4. _____ cold front | D. ongoing showers and storms are associated with this weather front |
| 5. _____ warm front | E. warmer air rises with this pressure system and bring cloudy, stormy weather |

Part II: Multiple Choice

Directions: Read each question carefully and circle the best answer.

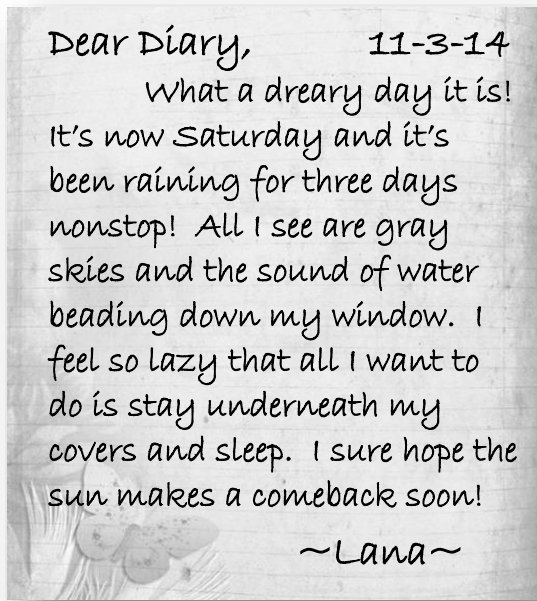
6. Meteorologists use this tool to measure air pressure –

- A** thermometer
- B** barometer
- C** hygrometer
- D** anemometer

7. Washington D.C. is forecasted to have cooling temperatures and stormy conditions. What type of weather system can they expect to move through their area?

- A** stationary front
- B** warm front
- C** cold front
- D** high pressure

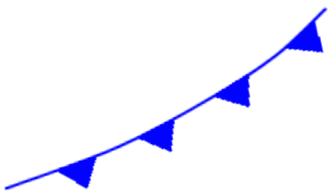
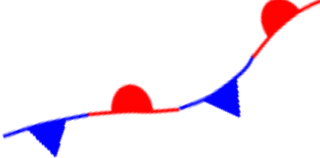

8. Read the following diary entry. Then answer the question.



Which of the choices probably best describes the weather conditions Lana is experiencing now?

- A** high pressure
- B** warm front
- C** stationary front
- D** cold front

9. Look at Travis's notes for weather symbols. Then answer the question that follows.

| Name | 1: _____ | 2: _____ | 3: _____ |
|---------|---|--|---|
| Picture |  |  |  |

What are the missing titles according to the pictures?

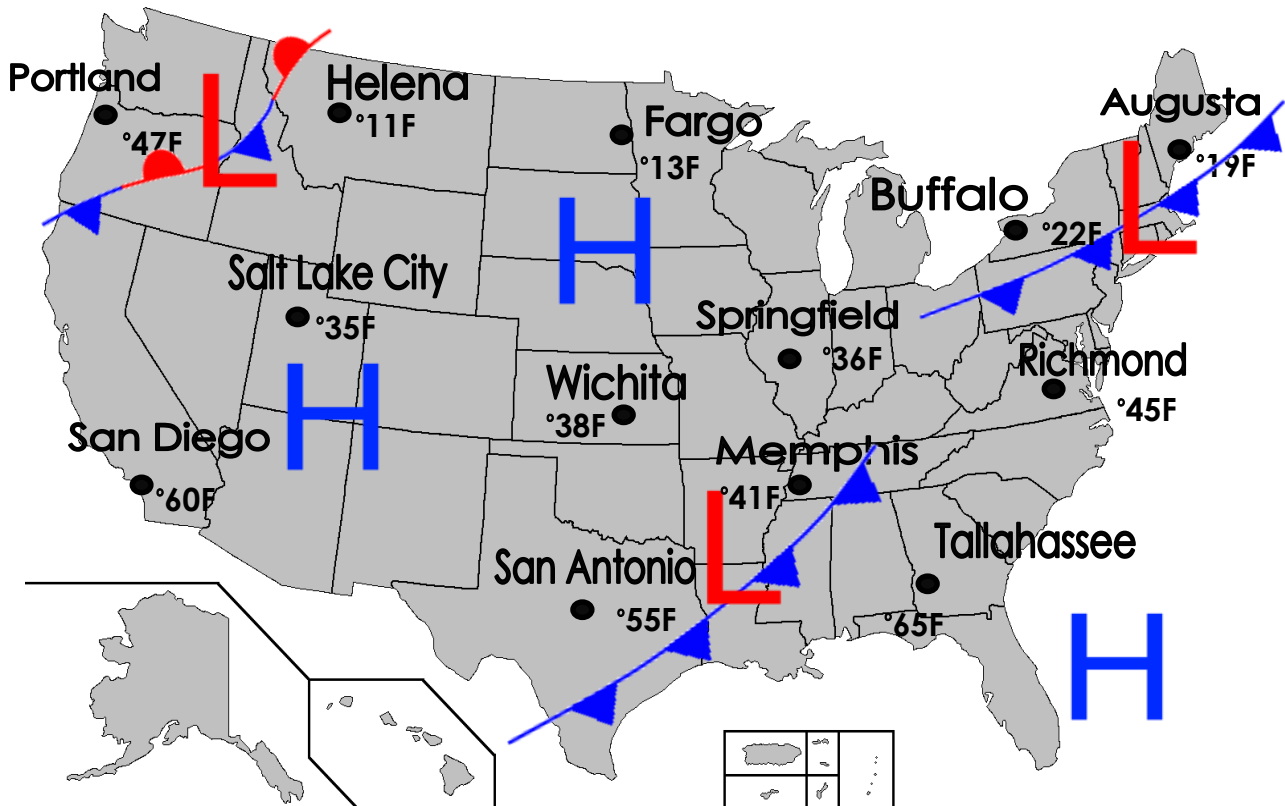
- A** 1: Stationary Front 2: Cold Front 3: Warm Front
- B** 1: Cold Front 2: Stationary Front 3: Warm Front
- C** 1: Warm Front 2: Cold Front 3: Stationary Front
- D** 1: Cold Front 2: Low Pressure 3: High Pressure

10. The high temperature for Dallas, Texas today was 56°F. Tomorrow's high temperature is forecasted to be 69°F with possible rain showers. What inference can be made?

- A** A warm front will come through the Dallas region and will increase their temperatures.
- B** A stationary front will pass through the area.
- C** A cold front is approaching their area will decrease their temperatures.
- D** A high pressure system will soon go through Dallas bringing them dry conditions.

Part III: Map Analysis

Directions: Read each question carefully and follow its directions.



11. According to the map, which cities are experiencing cloudy and rainy conditions?

12. Write a forecast for the city of Tallahassee for today and tomorrow based on the weather symbols used on the map. Suggest to the residents of that city how they should dress for the next couple of days.

13. Draw the weather symbol on the map to represent that Richmond is having lingering rain and showers.

14. List the cities that can look out their window and see clear, blue skies.

15. Which cities could possible see snow or snow showers?
