

Vasquez High School -- Earth Science B -- Test #4 -- Chapter 20 -- 60 points

Write TRUE if the statement is true OR write the word(s) that substitutes for the underlined word(s) that would make it true. Writing false only earns partial credit. Three points each.

- _____ 1) A lightning rod conducts the lightning from the clouds down to the ground.
- _____ 2) Cold fronts move about twice as slowly as do warm fronts.
- _____ 3) The central portion of the hurricane is known as its ring.
- _____ 4) All types of fronts produce precipitation of one kind or another.
- _____ 5) If you hear thunder ten seconds after seeing the lightning, you know the storm is ten miles away.

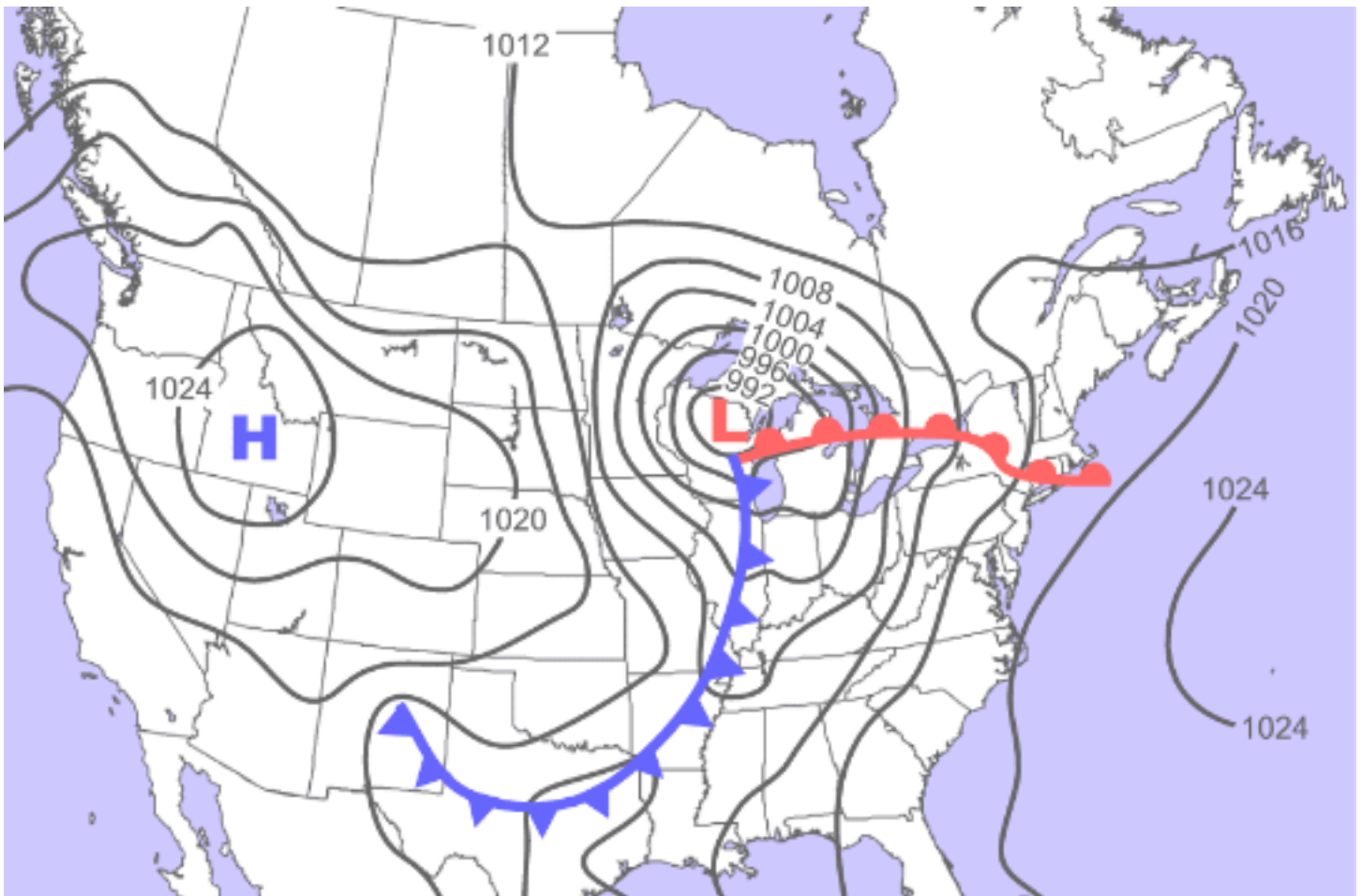
Short Answer/Fill-in. Be specific in your answers. Be neat and complete. Three points each.

- 6) The three factors for blizzard conditions are: _____,
_____, and _____.
- 7) What are the names of these air masses? a) cT = _____
b) mP = _____ c) cA = _____
- 8) From where outside of the United States might a cP air mass come from? _____
- 9) What are the features of a cold front? What causes it? _____

- 10) What are the features of a warm front? What causes it? _____

- 11) What is the area in the central part of the US where lots of violently rotating columns of air often occur?
_____ (clue: two words)
- 12) What is thunder? What is the primary cause of it (not clouds colliding)? _____

13) Observe the weather map of the US below and answer the following questions. Two points each.



- Circle the area that would have the highest winds and label it with a W.
- Place a symbol just west of the middle California coast with clear skies and medium southerly winds.
- What is the lowest barometric reading on the map? _____
- In what direction is the warm front moving? _____
- Circle the area where the coldest weather is most likely and label it with a C.
- Draw a stationary front at the southern tip of California, where a warm air mass moving north meets a cool air mass moving south.
- Draw a large circle and arrow showing the placement and direction of a mT air mass - label it mT.
- The black, curvy lines on the map are called _____.
- Draw a weather symbol in Texas, just south of the cold front, with partly cloudy skies and light winds from the north.
- How much is the range of atmospheric pressures on the map? _____