

## Pressure Worksheet

Name: \_\_\_\_\_

Read pages 532-535 first. Use sentences to answer those questions marked with asterisks\*.

1. What type of barometer is shown on figure 2-A on page 533?
  2. \*Explain why the mercury would rise in this barometer 2-A as a high-pressure system moves into the area?
  3. What is the height of the mercury in the barometer shown in 2-A? (Include units)
  4. In figure 2-A on page 533, what is in the space above the mercury called?
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5. At sea level, mercury in a barometer will be about 76 cm high (76 cm Hg). This is the same as:  
\_\_\_\_\_ mm of Hg
  6. \*At Denver's Mile High Stadium the atmospheric pressure might be about 835 millibars, whereas in Seattle it would be closer to 1015 millibars. . . Why the difference.
  7. \*What would happen to the height of the mercury if a low pressure system moved into the area?
  8. \*What happens to the hollow cans inside this type of barometer when the pressure is low?
  9. What do we call the lines shown on the map on page 534?
  10. Read the caption by figure 3 on p. 534. Does wind blow from areas of higher to areas of lower pressure, or vice versa?
  11. \*In the movie "Total Recall", the people outside the buildings on Mars were in obvious pain. Explain what was happening to them in terms of the pressure inside and outside of their bodies.

Bonus question:

Why is it easier to hit a home run in the Colorado Rockies' stadium than it is to hit a home run in Yankee's stadium? Provide evidence for your answer.