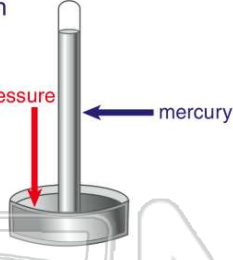





Name _____ Class _____ Date _____

1 The instrument shown here measures **air pressure**. What is the name of this instrument?




A thermometer
B hygrometer
C volt meter
D barometer

2 If an aluminum can containing a small amount of water is heated, then quickly cooled, it will suddenly **crush** with no apparent force. What **force** causes the can's **collapse**?




A air pressure outside of the can
B the metal particles melt
C gravity increases
D pressure in the can increases

3 In the diagram below, where would a **barometer** show the largest measurement?



A 1
B 2
C 3
D 4

4 Using the diagram below, determine where a mountain climber would have the **toughest** time **breathing**.



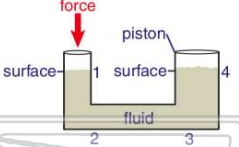
A 1
B 2
C 3
D 4



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7



A 1
B 2
C 3
D 4

9 The use of **hydraulic equipment** is based on **whose** principle?

A Newton's
B Bernoulli's
C Pascal's
D Einstein's

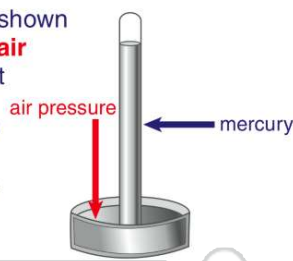
10 In order for a hydraulic cylinder to **work**, it must _____.

A have air in it
B be open on one end
C be open on both ends
D be sealed on both ends



ANSWER KEY

The instrument shown here measures **air pressure**. What is the name of this instrument?



- A thermometer
- B hygrometer
- C volt meter
- D barometer

(d)

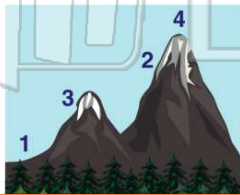
If an aluminum can containing a small amount of water is heated, then quickly cooled, it will suddenly **crush** with no apparent force. What **force** causes the can's **collapse**?



(a)

- A air pressure outside of the can
- B the metal particles melt
- C gravity increases
- D pressure in the can increases

In the diagram below, where would a **barometer** show the largest measurement?



(a)

- A 1
- B 2
- C 3
- D 4

Using the diagram below, determine where a mountain climber would have the **toughest** time **breathing**.



(d)

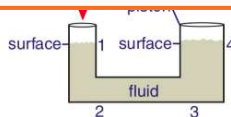
- A 1
- B 2
- C 3



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- A 1
- B 2
- C 3
- D 4



- B increase the surface area at point 4
- C make the tube from point 2 to point 3 longer
- D make point 1 and point 4 equal surface areas

The use of **hydraulic equipment** is based on **whose** principle?

- A Newton's
- B Bernoulli's
- C Pascal's
- D Einstein's

(c)

In order for a hydraulic cylinder to **work**, it must _____.

- A have air in it
- B be open on one end
- C be open on both ends
- D be sealed on both ends

(d)