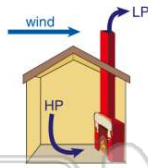




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

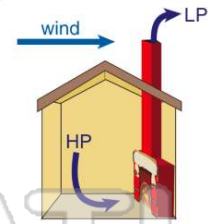
1 Smoke moves **up** a chimney and **away** from the house. In addition to heat rising, the explanation for this is the air pressure at the **bottom** is \_\_\_\_\_.

- A greater than the air pressure at the top
- B equal the air pressure at the top
- C less than the air pressure at the top
- D decreasing in the fireplace



2 If there was **no wind** above the chimney, smoke would probably \_\_\_\_\_.

- A go up faster
- B not go up as well
- C evaporate
- D disappear



3 The reasoning that explains **smoke going up a chimney** is the same for \_\_\_\_\_.

- A a plane taking off
- B a car skidding to a stop
- C a plane descending
- D a car accelerating

4 When a plane is taking off, **where** on the plane is air exerting the **least** amount of **pressure**?

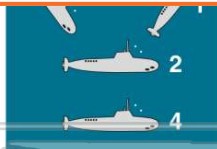
- A below the cabin
- B in front of the plane
- C behind the tail



## PREVIEW

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- 7
- B 2
- C 3
- D 4



- B water with air
- C water with oil
- D air with vapor



9 The brakes on a car work by **hydraulics**. A car's **brakes** may **fail** to work if there is \_\_\_\_\_.

- A an increase in air pressure
- B a decrease in humidity
- C a loss of brake fluid
- D engine oil that needs to be changed



10 Strong winds during a storm sometimes cause **roofs** on houses to get **blown off**. What could be the **reason** for this?

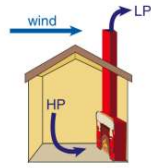
- A Speed of the air above the roof increases air pressure on the roof.
- B The walls of the house get weaker.
- C The basement of the house gets moved.
- D Speed of the air above the roof decreases the air pressure on the roof.



## ANSWER KEY

Smoke moves **up** a chimney and **away** from the house. In addition to heat rising, the explanation for this is the air pressure at the **bottom** is \_\_\_\_\_.

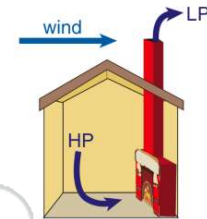
- A** greater than the air pressure at the top
- B** equal the air pressure at the top
- C** less than the air pressure at the top
- D** decreasing in the fireplace



(a)

If there was **no wind** above the chimney, smoke would probably \_\_\_\_\_.

- A** go up faster
- B** not go up as well
- C** evaporate
- D** disappear



(b)

The reasoning that explains **smoke going up a chimney** is the same for \_\_\_\_\_.

- A** a plane taking off
- B** a car skidding to a stop
- C** a plane descending
- D** a car accelerating

(a)

When a plane is taking off, **where** on the plane is air exerting the **least** amount of **pressure**?

- A** below the cabin
- B** in front of the plane
- C** behind the tail
- D** above the wings



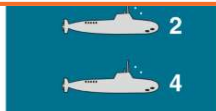
(d)



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D 4



D air with vapor



The brakes on a car work by **hydraulics**. A car's **brakes** may **fail** to work if there is \_\_\_\_\_.

- A** an increase in air pressure
- B** a decrease in humidity
- C** a loss of brake fluid
- D** engine oil that needs to be changed



(c)

Strong winds during a storm sometimes cause **roofs** on houses to get **blown off**. What could be the **reason** for this?

- A** Speed of the air above the roof increases air pressure on the roof.
- B** The walls of the house get weaker.
- C** The basement of the house gets moved.
- D** Speed of the air above the roof decreases the air pressure on the roof.

(d)