




Name _____ Class _____ Date _____

1 A small weather system that has **intense energy** which creates **heavy rains**, high **winds**, and **lightning** is called a _____.

A hurricane
B thunderstorm
C tornado
D cold front




2 A **thunderstorm** occurs when the atmosphere is **unstable**. **The atmosphere is considered unstable when _____.**

A a warm front moves into a cool area
B warm and dry air is surrounded by cool air
C warm and humid air is surrounded by cool air
D cool and dry air is surrounded by warm and dry air




3 In an unstable atmosphere, cumulonimbus clouds become **electrically charged**. The upper portions of the clouds are negatively charged and the **lower** portions are **positively charged**. Lightning strikes when the **positive** charge from the clouds **connects** with the **positively** charged ground (earth).



4 There is a relationship between the point a **lightning flash** occurs and the time the **thunder** can be heard. This relationship can help to determine how far away a thunderstorm is from the observer. If lightning flashes and the thunder is heard **24 seconds** later, how far away is the storm?

A 3 kilometers
B 8 kilometers



5




PREVIEW

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7

The air pressure in the middle _____.

A hurricane
B occluded front
C tornado
D cyclone



the air pressure in the region of the storm _____.

D variable from top to bottom

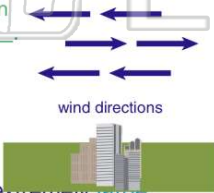
Tornadoes begin to form when the wind direction _____



9 changes from the ground **upwards** in the atmosphere. Near the ground the wind may blow from the south, but higher in the atmosphere the wind is blowing from the west. **This change in wind direction with altitude is called _____.**


A a hurricane
B a tornado
C an anemometer
D wind shear

What is the name for an extremely large, _____



10 **tropical, rotating** weather system that has winds of at least **119 km/h**?

A hurricane
B typhoon
C cyclone
D all of the above





ANSWER KEY

A small weather system that has **intense energy** which creates **heavy rains**, high **winds**, and **lightning** is called a _____.

- A hurricane
- B thunderstorm
- C tornado
- D cold front



(b)

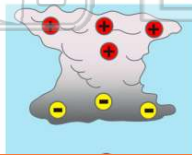
A **thunderstorm** occurs in when the atmosphere is **unstable**. **The atmosphere is considered unstable when _____.**

- A a warm front moves into a cool area
- B warm and dry air is surrounded by cool air
- C warm and humid air is surrounded by cool air
- D cool and dry air is surrounded by warm and dry air



(c)

In an unstable atmosphere, cumulonimbus clouds become **electrically charged**. The upper portions of the clouds are **negatively charged** and the **lower** portions are **positively charged**. Lightning strikes when the **positive** charge from the clouds **connects** with the **positively** charged ground (earth).
True or false?



(b)

There is a relationship between the point a **lightning flash** occurs and the time the **thunder** can be heard. This relationship can help to determine how far away a thunderstorm is from the observer. If lightning flashes and the thunder is heard **24 seconds** later, how far away is the storm?

- A 3 kilometers
- B 8 kilometers
- C 24 kilometers



(b)



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- A hurricane
- B occluded front
- C tornado
- D cyclone



The **air pressure** in the middle

changes from the ground **upwards** in the atmosphere. Near the ground the wind may blow from the south, but higher in the atmosphere the wind is blowing from the west. This **change** in wind direction with altitude is called _____.



- A a hurricane
- B a tornado
- C an anemometer
- D wind shear

What is the name for an extremely large,



(d)

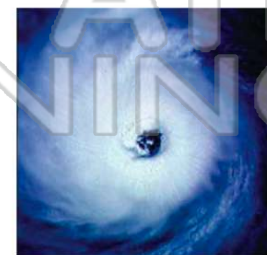
- D variable from top to bottom



Tornadoes begin to form when the **wind direction**

tropical, rotating weather system that has winds of at least **119 km/h**?

- A hurricane
- B typhoon
- C cyclone
- D all of the above



(d)