




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

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

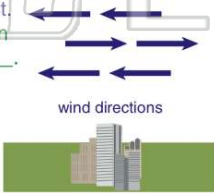


**C** about the same as the air pressure in the region of the storm  
**D** variable from top to bottom




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



10 What is the name for an extremely **large, 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 \_\_\_\_\_.

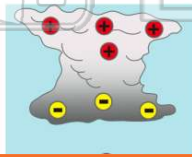
- A a warm front moves into a cool area
- B warm and dry air is surrounded by cool air
- C warm and humid air is surrounded by cool air
- D cool and dry air is surrounded by warm and dry air



(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)



## PREVIEW

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



- A region of the storm
- D variable from top to bottom



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

(d)

What is the name for an extremely **large, 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)