

$$-5/8 \div 9/10$$

**A.  $-25/36$**

**B.  $-9/16$**

**C.  $-45/80$**

**D.  $-1/36$**

A.  $-25/36$

$$-5/8 \div 9/10 = -5/8 \times 10/9 = -5/4 \times 5/9 = -25/36$$

Arrange the steps in order to describe what happens to a gas when it cools. The A particles of gas move slower. B The gas changes to a liquid.

C The gas loses thermal energy.

D The space between the gas particles decreases.

Please help me! Thank you! Q 1. Suppose the unit horsepower actually replaced watt as the unit of power for electric appliances. What would the power rating of a 500-W refrigerator be in horsepower?

Q 2

An electric field tends to be strongest at the ends of pointed objects. How does this explain the fact the St. Elmo's fire appears on pointed objects such as the masts of ships?

Compare and contrast St. Elmo's fire with lightning.

Q 3

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Compare and contrast St. Elmo's fire with lightning.

Q 4 The red glow of a neon light is also produced by a plasma. How might the glow of the light change if the neon gas inside it were replaced by air?

Q 5 Why does St. Elmo's fire only occur during thunderstorms?

Q 6 Based on what you have learned about lightening and St. Elmo's fire, do you think air is a good conductor of electric charge?

### St. Elmo's Fire

St. Elmo's fire is bluish glow sometimes seen during stormy weather on the tops of masts of ships, church steeples, and other tall pointed objects. Despite its name, St. Elmo's fire is not a flame and does not burn the objects on which it appears. It is a type of static discharge, like lightening. St. Elmo's fire can last for several minutes.

You know that electrons accumulate on the bottoms of clouds during thunderstorms and induce a positive charge in the ground. If enough charge builds up in this way, atoms in the air can be stripped of their electrons, producing a plasma. A plasma is a glowing gas with no net charge. It contains positive ions and free electrons. St. Elmo's fire is a plasma. the color of light given off by a plasma depends on the gas involved. The air in Earth's atmosphere is mostly a mixture of oxygen and nitrogen gas. As a plasma, this mixture gives off a bluish glow.

1. La madre de Huáscar es Ragua Ocllo. a. cierto b. falso 2. El padre de Atahualpa es Tupac Hualca. a. cierto b. falso 3. Los conquistadores toman prisionero (take prisoner) a Atahualpa en 1197. a. cierto b. falso 4. Atahualpa y Huáscar no quieren compartir (share) el imperio (empire) inca. a. cierto b. falso 5. Atahualpa asesina (assassinates) a su medio hermano Huáscar. a. cierto b. falso 6. Atahualpa es el hijo de Huayna Capac. a. cierto b. falso 7. La madre de Atahualpa es una princesa de Quito. a. cierto b. falso 8. Huayna Capac es el último emperador inca. a. cierto b. falso

How did the American public react to televised scenes of Birmingham's police force turning dogs and fire hoses against peaceful civil rights marchers? a. Northerners didn't pay any attention and southerners didn't have television sets.

b. Most people across the North and the South sympathized with the police.

c. Decent people, both in the North and in the South, were horrified and outraged.

d. Most northerners and southerners felt the civil rights movement had achieved its goals.

Please help me! Do any one of them, as long as the answer is correct! 1.) Match each equation with the pair of points used to create the equation.

### Column A Column B

1.  $y - 4 = -1(x + 4)$  a.  $\{3, 3\}$  and  $(-3, -3)$

2.  $y - 3 = 1(x - 3)$  b.  $(0, 0)$  and  $(-4, 4)$

3.  $y - 13 = 1(x + 2)$  c.  $(1, 3)$  and  $(-2.9, 3)$

4.  $y - 3 = 0(x - 1)$  d.  $(-2, 13)$  and  $(0, 15)$

2.) Enter an equation in point slope form for the line containing the points  $(5, 7)$  and  $(6, 3)$ .

3.) Enter an equation in point slope form for the line.

Slope is  $-9$  and  $(1, 2)$  is on the line.

4.) Enter an equation in point slope form for the line.

Slope is 1 and (1, 3) is on the line.

5.) Keisha is reading a 350 page book at a rate of 27 pages per day. Use a point-slope equation to determine how many pages she will have left to read after reading the book for 10 days.

How many pages will Keisha have left to read after 10 days?

6.) A rectangular swimming pool has a volume of 2,530 cubic feet. Water is being added to the pool at a rate of about 20 cubic feet per minute. Use an equation in point slope form to determine about how long will it take to fill the pool completely if there were already about 975 gallons of water in the pool. Use the fact that 1 cubic foot of space holds about 7.5 gallons of water. Round the answer to the nearest integer if necessary.

How many minutes will it take to fill the pool completely?

If a car is traveling eastward, can its acceleration be westward?

How did the Ku Klux Klan gain popularity in the North in the 1910s and 1920s?

Ocean currents move cold water from the tropics to the poles, where the water warms. Disagree or agree

What is the composition of Level C in a soil profile

A 1913 California law forced Japanese Americans to

- become United States citizens.

- sign unfair labor contracts.

- sell their land.

- learn English.

What was the name given to northerners who moved south to improve their economic and political situation?

Jacob mixes the letters J, K, L, J, K, M, N, and P thoroughly without looking Terry draws one letter expressed as a fraction, decimal, and percentage what is the probability that K will not be the letter Terry selects

624 feet to 702 feet state whether the percent of the change is an increase or decrease

A student initially stands on a circular platform that is free to rotate without friction about its center. The student jumps off tangentially, setting the platform spinning. Quantities that are conserved for the student-platform system as the student jumps include which of the following? I. Angular momentum

II. Linear momentum

III. Kinetic energy

Label the parts of a cell membrane with the term that describes each part.

$(2a^2+3a-1)-(4a^2+5a+6)$

Three prime factorizations of 16

On December 15, Zapp Company paid \$1,900 to Sylvan Supply Co. on account. The journal entry to record this transaction would include a \_\_\_\_\_ to \_\_\_\_\_.

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