**Investigation 9A: The PETM: A Possible Analog to Modern Climate**

1.

a. 32

b. 56

c. 64

2.

a. 2

b. 10

c. 14

d. 20

3.

a. methane and carbon dioxide

b. nitrogen and oxygen

c. nitrous oxide and CFCs

d. sulfur dioxide and water vapor

4.

a. much slower than

b. about the same as

c. much faster than

5.

a. volcanism ... methane hydrates beneath the ocean floor or buried peat

b. methane hydrates beneath the ocean floor or buried peat ... volcanism

6.

a. is well behind

b. is well ahead of

7.

a. 18O

b. 16O

8.

a. temperature

b. glacial ice volume

c. both of these

9.

a. increase

b. decrease

10.

a. increase

b. decrease

11.

a. 0%

b. 50%

c. 90%

12.

a. 0%

b. 50%

c. 90%

*©2022 American Meteorological Society*