Battling for Oxygen Worksheet

Answer the following questions, based on what you learned in the gumdrop-ozone activity:

1. Ozone is made of _______ oxygen molecules.
   a) one
   b) two
   c) three
   d) four

2. The chemical formula for oxygen gas is _______.
   a) O₂
   b) O₃
   c) O₄
   d) ClO₂

3. Sources of chlorofluorocarbons include aerosol cans, old refrigerators and _________.
   a) batteries
   b) plants
   c) car engines
   d) old air conditioners

4. Ultraviolet light (UV) light _____________ ozone molecules.
   a) builds
   b) breaks up
   c) does not affect
   d) doubles

5. Ultraviolet light _________________ humans and other organisms.
   a) is harmful to
   b) is helpful to
   c) does not affect
   d) protects
Using the graph above, answer the following questions:

1. When were the most chlorofluorocarbons (CFCs) produced?
   a) 1972
   b) 1978
   c) 1988
   d) 2000

2. When did CFC production first reach 200 thousand tons?
   a) 1972
   b) 1956
   c) 1964
   d) 1960

3. What do you guess the average production of CFCs is?
   a) 1,200 thousand tons
   b) 490 thousand tons
   c) 6 thousand tons
   d) 100 thousand tons

4. Why are CFCs no longer produced?