

Name _____



Human Activities and Emissions

Below are several human activities. Your task is to map each activity to:

1. The **emission or greenhouse gas** it produces, and
2. The **climate impact** it can cause.

Write the correct letter and roman numeral in the space before each number.

Human Activities (Causes):

1. Burning coal in power plants
2. Cutting down large areas of forests
3. Driving gasoline-powered cars
4. Raising cattle on farms
5. Using products with old refrigerants (CFCs)

Emissions (Middle Step):

- A. Methane (CH_4)
- B. Carbon dioxide (CO_2)
- C. Carbon dioxide loss of absorption (less trees)
- D. Chlorofluorocarbons (CFCs)
- E. Carbon dioxide (CO_2)

Climate Impacts (Effects):

- i. Stronger greenhouse effect and global warming
- ii. Rising sea levels from melting ice
- iii. Warmer atmosphere and disrupted weather patterns
- iv. Damage to the ozone layer plus added warming
- v. Loss of natural carbon storage, increasing heat buildup

| Human Activity | Emission | Climate Impact |
|----------------------------------|----------|----------------|
| 1. Burning coal in power plants | | |
| 2. Cutting down forests | | |
| 3. Driving gasoline-powered cars | | |
| 4. Raising cattle | | |
| 5. Using products with CFCs | | |