



# Nombres et équations

**Objective:** This worksheet helps practise how to read numbers, mathematical expressions, and chemical equations aloud in English.

We will focus on correct pronunciation, rhythm, and common expressions (e.g. *plus, minus, squared, reacts with, produces*).

## Reading Numbers and Mathematical Expressions

### Exercise 1 – Choose the correct English reading

Circle the correct answer.

**Q1.** 3.25

- A) Three point twenty-five
- B) Three point two five
- C) Thirty-two point five

**Q2.**  $7.0 \times 10^{-3}$

- A) Seven point zero times ten to the minus three
- B) Seven times ten power three
- C) Seven to the power of minus three

**Q3.**  $x^2 + 3x = 5$

- A) X two plus three X equals five
- B) X squared plus three X equals five
- C) X multiply X plus three X equals five

**Q4.** a/b

- A) A divide B
- B) A divided by B
- C) A over B
- D) All of the above are possible

### Exercise 2 – Write in words

Write how you would read each expression aloud in English.

1.  $4.07 \times 10^5$  .....
2.  $10^{-9}$  .....
3.  $x^3 - 2x = 0$  .....
4.  $\sqrt{16}$  .....
5.  $E = mc^2$  .....



## Useful Vocabulary for Reading Aloud

### Symbols

+ = plus / reacts with

→ = gives / produces / forms / yields

### States of matter

(s) = solid (l) = liquid (g) = gas (aq) = aqueous (in water)

### Quantities

2H<sub>2</sub>O = "two molecules of water"

### Pronunciation tips

- O<sub>2</sub> → "oxygen" or "O two"
- H<sub>2</sub> → "hydrogen" or "H two"
- CO<sub>2</sub> → "carbon dioxide"
- NaCl → "sodium chloride"

## Reading Chemical Equations

### Exercise 3 – Multiple choice

Choose the correct English reading.

**Q5.** 2H<sub>2</sub> + O<sub>2</sub> → 2H<sub>2</sub>O

- A) Two hydrogen plus oxygen gives two water
- B) Two hydrogen molecules react with one oxygen molecule to produce two water molecules
- C) Hydrogen and oxygen make water
- D) All of the above can be correct in context

**Q6.** CaCO<sub>3</sub> → CaO + CO<sub>2</sub>

- A) Calcium reacts with oxygen to form carbon dioxide
- B) Calcium carbonate decomposes into calcium oxide and carbon dioxide
- C) Calcium carbonate and oxygen make calcium oxide
- D) Calcium and carbon react to form calcium oxide

**Q7.** Zn + 2HCl → ZnCl<sub>2</sub> + H<sub>2</sub>

- A) Zinc plus hydrochloric acid gives zinc chloride and hydrogen
- B) Zinc reacts with hydrogen chloride to produce zinc chloride and hydrogen gas
- C) Both A and B are correct ways to say it
- D) Zinc chloride decomposes into zinc and hydrogen

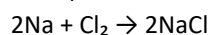
**Q8.** N<sub>2</sub> + 3H<sub>2</sub> → 2NH<sub>3</sub>

- A) Two nitrogen plus three hydrogen equals two ammonia
- B) Nitrogen reacts with hydrogen to produce ammonia
- C) Nitrogen three hydrogen make ammonia gas
- D) Nitrogen combines with hydrogen three to form ammonia two

**Exercise 4 – Write in English words**

Describe the equations below using correct scientific English.

Example:



“Two sodium atoms react with one chlorine molecule to produce two sodium chloride molecules.”

1.  $2\text{K} + 2\text{H}_2\text{O} \rightarrow 2\text{KOH} + \text{H}_2$  .....
2.  $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$  .....
3.  $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$  .....