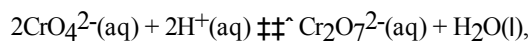


Name: _____

- 1) In which compound does chlorine have an oxidation number of +5?
A) HClO_4 B) HClO C) HClO_3 D) HClO_2
- 2) In which compound does hydrogen have an oxidation number of -1?
A) H_2O B) NH_3 C) KH D) HCl
- 3) In which compound is the oxidation state of chlorine the *lowest*?
A) HClO_4 B) HClO_2 C) HClO D) HClO_3
- 4) Oxygen has a positive oxidation number in the compound
A) H_2O_2 B) IO_2 C) OF_2 D) H_2O
- 5) In which substance is the oxidation number of nitrogen zero?
A) N_2O B) NO_2 C) NH_3 D) N_2
- 6) What is the oxidation number of carbon in NaHCO_3 ?
A) +2 B) -4 C) +4 D) +6
- 7) What is the oxidation number of chlorine in HClO_4 ?
A) +5 B) +3 C) +7 D) +1
- 8) In the reaction $\text{Cl}_2 + \text{H}_2\text{O} \rightleftharpoons \text{HClO} + \text{HCl}$, the oxidation number of chlorine
A) neither decreases nor increases C) decreases, only
B) increases, only D) both decreases and increases
- 9) The oxidation number of nitrogen is *highest* in
A) NO_2 B) N_2O C) N_2 D) NH_3
- 10) In which substance does sulfur have a negative oxidation number?
A) CaSO_4 B) SO_2 C) Na_2S D) S
- 11) The oxidation number of nitrogen in N_2O is
A) -2 B) -1 C) +2 D) +1
- 12) In which substance does sulfur have an oxidation state of +4?
A) S B) SO_2 C) H_2S D) SO_3
- 13) Oxygen has an oxidation number of -2 in
A) Na_2O_2 B) OF_2 C) O_2 D) NO_2
- 14) In the compound Na_2HPO_4 , which element has a negative oxidation number?
A) O B) H C) Na D) P
- 15) If element X forms the oxides $X\text{O}$ and $X_2\text{O}_3$, the oxidation numbers of element X are
A) +1 and +2 B) +2 and +3 C) +2 and +4 D) +1 and +3
- 16) The oxidation numbers of *all* the atoms in H_2SO_4 must add up to
A) 0 B) +9 C) +16 D) +5
- 17) What is the oxidation number of iodine in KIO_4 ?
A) -1 B) +1 C) -7 D) +7
- 18) Hydrogen would have a -1 oxidation state if it formed a compound with
A) F B) K C) O D) N
- 19) What is the oxidation number of Pt in K_2PtCl_6 ?
A) -4 B) +2 C) +4 D) -2
- 20) In which compound does sulfur have an oxidation number of -2?
A) SO_3 B) Na_2SO_4 C) SO_2 D) Na_2S

- 21) In which compound does chlorine have the *highest* oxidation number?
 A) KClO_3 B) KClO_4 C) KClO_2 D) KClO
- 22) In which compound does chlorine have an oxidation number of +7?
 A) HClO B) HClO_3 C) HClO_4 D) HClO_2
- 23) Oxygen will have a positive oxidation number when combined with
 A) fluorine B) bromine C) iodine D) chlorine
- 24) The oxidation number of hydrogen in sodium hydride (NaH) is
 A) +2 B) -2 C) -1 D) +1
- 25) In which compound is the oxidation number of oxygen -1?
 A) H_2O B) CO_2 C) H_2O_2 D) CO
- 26) What is the sum of the oxidation numbers of the atoms in the compound CO_2 ?
 A) +4 B) -2 C) 0 D) -4
- 27) In the reaction



the oxidation number of chromium

- A) increases B) remains the same C) decreases
- 28) What is the oxidation number of sulfur in H_2SO_4 ?
 A) +6 B) 0 C) +4 D) -2
- 29) What is the oxidation number of oxygen in HSO_4^- ?
 A) -4 B) +1 C) -2 D) +6
- 30) In which substance does oxygen have a -2 oxidation number?
 A) Na_2O_2 B) H_2O_2 C) CO_2 D) O_2