

Name : Date :

Oxidation Numbers Worksheet

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Give the correct oxidation number of the atom/ion as directed:

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|-------------------------------|-------------------------------|
| 1) N in N_2O_3 _____ | 11) Fe in $Fe(ClO_2)_3$ _____ |
| 2) S in H_2SO_4 _____ | 12) N in NO_3^- _____ |
| 3) C in CO _____ | 13) C in CH_4 _____ |
| 4) Na in NaCl _____ | 14) Mn in MnO_2 _____ |
| 5) H in H_2O _____ | 15) S in SO_3^{2-} _____ |
| 6) Ba in $BaCl_2$ _____ | 16) Na in Na_2S _____ |
| 7) N in NO_2^- _____ | 17) S in H_2S _____ |
| 8) S in Al_2S_3 _____ | 18) C in CH_4 _____ |
| 9) S in HSO_4^- _____ | 19) H in OH^- _____ |
| 10) Cl in $Fe(ClO_2)_3$ _____ | 20) Mn in $KMnO_4$ _____ |

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Answers

- 1) N in N_2O_3 +3
- 2) S in H_2SO_4 +6
- 3) C in CO +2
- 4) Na in NaCl +1
- 5) H in H_2O +1
- 6) Ba in BaCl_2 +2
- 7) N in NO_2^- +3
- 8) S in Al_2S_3 -2
- 9) S in HSO_4^- +6
- 10) Cl in $\text{Fe}(\text{ClO}_2)_3$ +3
- 11) Fe in $\text{Fe}(\text{ClO}_2)_3$ +3
- 12) N in NO_3^- +5
- 13) C in CH_4 +4
- 14) Mn in MnO_2 +4
- 15) S in SO_3^{2-} +4
- 16) Na in Na_2S +1
- 17) S in H_2S -2
- 18) C in CH_4 +5
- 19) H in OH^- +1
- 20) Mn in KMnO_4 +7