BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 52

1. 4 Fe + ____ HNO_3 = ____ $Fe(NO_3)_2$ + NH_4NO_3 + 3 H_2O
2. ____ KOH + H_2So_4 = K_2So_4 + ____ H_2O
3. 4 HCl + ____ As_2O_3 + 4 $NaNO_3$ + 7 H_2O = ____ NO + 6 H_3AsO_4 + 4 NaCl
4. ____ HCl + O_2 = 2 Cl_2 + ____ H_2O
5. ____ NaBr + H_3PO_4 = Na_3PO_4 + ____ HBr
6. H_2SO_4 + ____ NaOH = Na_2SO_4 + ____ H_2O
7. $Ba(OH)_2$ + ____ HCl = $BaCl_2$ + ____ H_2O
8. ____ BeO + 2 C = Be_2C + CO_2
9. CH_4 + ____ O_2 = CO_2 + ____ H_2O
10. ____ $Al(OH)_3(s)$ + 3 $H_2SO_4(aq)$ = $Al_2(SO_4)_3(aq)$ + ____ $H_2O(l)$
11. ____ NaBr + Cl_2 = ____ NaCl + Br_2
12. 2 ICl_3 + ____ H_2O = ICl + HIO_3 + ____ HCl
13. 2 C_2H_3Cl + ____ O_2 = ____ CO_2 + 2 H_2O + 2 HCl
14. $C_3H_8O(l)$ + ____ $O_2(g)$ = ____ CO + 4 H_2O
15. ____ Sn + 4 HNO_3 + H_2O = ____ H_2SnO_3 + 4 NO
16. $C_6H_{12}O_6(s)$ + ____ $O_2(g)$ = 6 $CO_2(g)$ + ____ $H_2O(l)$
17. ____ Fe_3O_4 + C = ____ FeO + CO_2
18. ____ HCl + 3 As_2O_3 + 4 $NaNO_3$ + 7 H_2O = ____ NO + 6 H_3AsO_4 + 4 NaCl
19. 3 $Ca(OH)_2$ + ____ H_3PO_4 = $Ca_3(PO_4)_2$ + ____ H_2O
20. ____ $KCLO_3$ = ____ KCL + 3 O_2

ANSWERS

1. $4\ Fe + 10\ HNO_3 = 4\ Fe(NO_3)_2 + NH_4NO_3 + 3\ H_2O$
2. $2\ KOH + H_2So_4 = K_2So_4 + 2\ H_2O$
3. $4\ HCl + 3\ As_2O_3 + 4\ NaNO_3 + 7\ H_2O = 4\ NO + 6\ H_3AsO_4 + 4\ NaCl$
4. $4\ HCl + O_2 = 2\ Cl_2 + 2\ H_2O$
5. $3\ NaBr + H_3PO_4 = Na_3PO_4 + 3\ HBr$
6. $H_2SO_4 + 2\ NaOH = Na_2SO_4 + 2\ H_2O$
7. $Ba(OH)_2 + 2\ HCl = BaCl_2 + 2\ H_2O$
8. $2\ BeO + 2\ C = Be_2C + CO_2$
9. $CH_4 + 2\ O_2 = CO_2 + 2\ H_2O$
10. $2\ Al(OH)_3(s) + 3\ H_2SO_4(aq) = Al_2(SO_4)_3(aq) + 6\ H_2O(l)$
11. $2\ NaBr + Cl_2 = 2\ NaCl + Br_2$
12. $2\ ICl_3 + 3\ H_2O = ICl + HIO_3 + 5\ HCl$
13. $2\ C_2H_3Cl + 5\ O_2 = 4\ CO_2 + 2\ H_2O + 2\ HCl$
14. $C_3H_8O(l) + 3\ O_2(g) = 3\ CO + 4\ H_2O$
15. $3\ Sn + 4\ HNO_3 + H_2O = 3\ H_2SnO_3 + 4\ NO$
16. $C_6H_{12}O_6(s) + 6\ O_2(g) = 6\ CO_2(g) + 6\ H_2O(l)$
17. $2\ Fe_3O_4 + C = 6\ FeO + CO_2$
18. $4\ HCl + 3\ As_2O_3 + 4\ NaNO_3 + 7\ H_2O = 4\ NO + 6\ H_3AsO_4 + 4\ NaCl$
19. $3\ Ca(OH)_2 + 2\ H_3PO_4 = Ca_3(PO_4)_2 + 6\ H_2O$
20. $2\ KCLO_3 = 2\ KCL + 3\ O_2$

Thanks for downloading our free printable.

We have thousands of such resources in our blog for teachers and parents.

You can download them for free here!

Free Printables from Go Science Girls – Fair Usage Policy

You can …

- Download and save this free printable from gosciencegirls.com to your computer.
- Print this file and use it as many times as you want in your home, classrooms or for your library.
- Feel free to link our blog post where your visitors can find and download this printable for free.
- When you post online about this resource – please give due credit to gosciencegirls.com

You Cannot …

- Access this file or download it from other sites apart from gosciencegirls.com
- Other websites cannot link to this pdf directly. If required, they are welcomed to link to the blog post from where this pdf can be downloaded.
- The ownership of this pdf rests with GoScienceGirls. No one can claim ownership for this file.
- You are not allowed to sell printed copies of this file to others.
- You are not allowed to store this file electronically and redistribute it (only personal use is allowed).

Further Questions?

Feel free to email us at contactgosciencegirls@gmail.com for any further questions and suggestions. We would love to hear from you. We promise to respond back as soon as we can.