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Grams, Moles, Molecules Worksheet WITH ANSWERS

How many grams of C are in 3.2 moles of C?

38.4 g C

How many moles of S are in 4.5 grams of S?

0.14 mol S

If you had 8.1 grams of magnesium how many moles of magnesium would that be?

0.337 mol Mg

If you had 9.6 moles of bromine how many grams of bromine would that be?

768 g Br

How many molecules of F are in 3.7 grams of F?

$1.17 * 10^{23}$ molec F

How many moles of Li are contained in $3.6 * 10^{25}$ molecules of Li?

412 g Li

If you had 12 atoms of hydrogen how many grams of CH_4 could you make?

$7.97 * 10^{-23}$ g CH_4

If you have 56 grams of Na_2I_3 then how many molecules of Na_2I_3 is that?

7.90 * 10^{22} molec Na_2I_3

With 4.6 * 10^{-23} moles of Pb_2N_3 how many molecules of Pb_2N_3 will you have?

27 molec Pb_2N_3

With 7.9 * 10^{13} grams of Ca_3B_5 how many atoms of boron will you have?

1.37 * 10^{36} atoms B

If you have 54 atoms of Be how many moles of BeO can you make?

8.97 * 10^{-23} mol Be