

Mass Mole Conversion Worksheet

1. How many moles are present in 15 grams of lithium?

Substance	Grams	Moles
C_2H_6	15	
H_2O	27.2	
$NaOH$	140	
$CaCO_3$	45.7	

2. Convert the following from moles to grams.

a) 1.5 moles of NH_3

b) 2.56 moles of Ca

c) 0.65 moles of H_2SO_4

d) 0.75 moles of $AlCl_3$

Name : _____

Date : _____

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Answers

1. How many moles are present in 15 grams of lithium?

Substance	Grams	Moles
C_2H_6	15	0.5
H_2O	27.2	1.15
$NaOH$	140	3.5
$CaCO_3$	45.7	0.46

2. Convert the following from moles to grams.

a) 1.5 moles of NH_3

1 mole of NH_3 weighs 17 grams/mol

1.5 moles of NH_3 weigh 25.5 grams

b) 2.56 moles of Ca

1 mole of Ca weighs 40 grams/mol

2.56 moles of Ca weigh 102.4 grams

c) 0.65 moles of H_2SO_4

1 mole of H_2SO_4 weighs 98 grams/mol

0.65 moles of H_2SO_4 weighs 63.7 grams

d) 0.75 moles of $AlCl_3$

1 mole of $AlCl_3$ weighs 133.33 grams/mol

0.75 moles of $AlCl_3$ weighs 99.9975 grams