

## ANSWERS

### Conversion worksheet

1.	63.1 grams
2.	2980 g
3.	$2.50 \times 10^{23}$
4.	.252 moles
5.	3.45 moles
6.	8.09 moles
7.	7.51 moles
8.	$7.53 \times 10^{23}$ formula units
9.	1.60 grams
10.	0.241 moles
11.	19.4 L
12.	6.16 moles
13.	438 liters
14.	$5.38 \times 10^{22}$ molecules
15.	$1.44 \times 10^{24}$ total atoms

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62. (a)	108 grams
(b)	547 grams
(c)	71.8 grams
(d)	238 grams
(e)	224 grams
(f)	1.88 grams
63. (a)	85.5 grams
(b)	14.6 grams
(c)	39.5 grams
64. (a)	0.292 mole
(b)	1.71 mole
(c)	0.633 mole
65. (a)	0.258 mole
(b)	$4.80 \times 10^{-4}$ mole
(c)	1.12 mole
(d)	0.106 mole
(e)	5.92 moles
(f)	$2.00 \times 10^{-2}$ mole
66.	22.4 L
67. (a)	171 L
(b)	30.0 L
(c)	9.00 L
(d)	$5.49 \times 10^{-2}$ L
70.(a)	233 L $\text{SO}_3$
(b)	$2.99 \times 10^{-22}$ g
(c)	$3.13 \times 10^{25}$ atoms
84.	(b)
86.	24.5 grams
94.	0.98 grams