

5-51. See below:

- a. 500 liters
- b. 31.25 liters

5-52. See below:

- a. $1.03y$
- b. $0.8z$
- c. $1.002x$

5-53. $y = -10x + 170$

5-54. See below:

- a. The output for the input that is 4 less than c .
- b. The output for the input that is half of b .
- c. 12 more than the output when the input is d .

5-55. See below:

- a. $20 - 4x = 29 - 7x$; 3 hours
- b. 8 lily pads

5-56. See below:

- a. $G + D + C + E + S$ or $B + L + F$
- b. either $\frac{L}{G+D+C+E+S}$ or $\frac{L}{B+L+F}$
- c. either $\frac{D+E}{G+D+C+E+S}$ or $\frac{D+E}{B+L+F}$