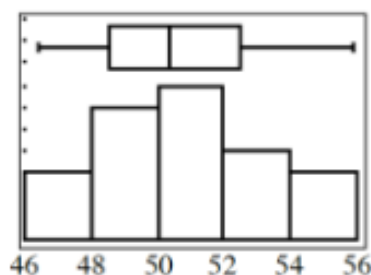


11-91. $f(x) = 3(0.2)^x$

11-92. See graph below. The distribution is symmetric with no outliers. The mean is 50.7 cm and the standard deviation is 2.6 cm. The lengths were measured to the nearest tenth of a centimeter.



11-93. $2(12x + 7) = 30x - 4$, so $x = 3$

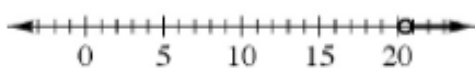
11-94. Let p = amount of powder blue and s = amount of spring blue. Then $0.02p + 0.1s = 0.04(1)$ and $p + s = 1$, so $p = 0.75$ gallons and $s = 0.25$ gallons.

11-95. See below:

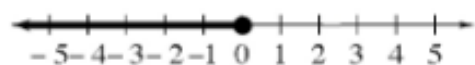
a. $x \geq 4$



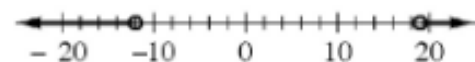
b. $x > 20.5$



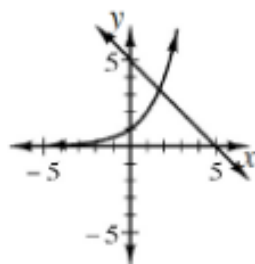
c. $x \leq 0$



d. $x > 19$ or $x < -12$



11-96. See graph below. $x \approx 1.8$



11-97. Let x = time (months); $718 - 14x = 212 + 32x$; $x = 11$ months

11-98. $y = -\frac{3}{2}x - 1$

11-99. $y = 2x + 5$; 105 tiles