Problem Set 46 — Even Answers

2. 12,000 kg

4. range = 50, $\bar{x}$ = 60
   median = 60, mode = 60

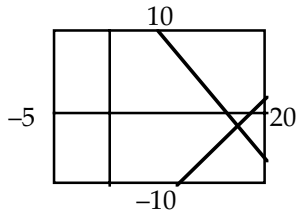
6. range = 82, $\bar{x}$ = 64.7
   median = 71, no mode
   $\sigma \approx 23.161$

8a. whole, integer, rational, real
b. rational, real
c. natural, whole, integer
rational, real

10. 34 children

12. sin A = 0.28
cos B = 0.28
tan A = $\frac{7}{24} \approx 0.292$

14. $x^3 + 6x^2y + 12xy^2 + 8y^3$

16. 

(15.999, –3.312)

18. $2x^3 + 8x^2 + 32x + 126 + \dfrac{252}{\frac{1}{2}x - 2}$

20. $x = -3, -\frac{3}{2}$

22a. 81 b. $7^{\frac{4}{15}}$

24. $\dfrac{13\sqrt{42}}{3}$

26. $12 - 3\sqrt[3]{3}$

28. $\dfrac{4 - y}{2x}$

30. 25