

Problem Set 41 — Even Answers

2. 140,000 places

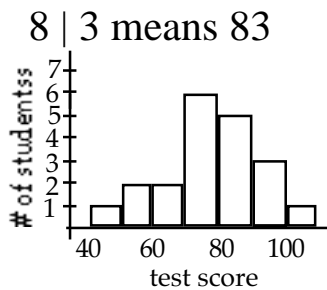
4. $A = 16\sqrt{3} \text{ in}^2 \approx 27.713 \text{ in}^2$

6a. $f(5) = \frac{19}{3}$

b. $f(x + h) - f(x - h) = \frac{4}{3}h$

8.

4	3
5	6, 8
6	5, 7
7	0, 3, 5, 8, 8, 8
8	0, 3, 5, 7, 9
9	5, 6, 9
10	0



10.
$$\frac{ax + bx + by + cx^3 + 4x^2}{x^2(x + y)}$$

12. $p = -1, \frac{5}{2}$

14. $x = -4, -\frac{1}{2}$

16. $x = 3 \pm \sqrt{5} \approx 0.764, 5.236$

18a. 4 b. $-\frac{1}{27}$

20. $x^{7/4}y^2$

22.
$$\frac{23\sqrt{10} - 4\sqrt{15}}{5}$$

24.
$$\frac{(x + 5)(x - 4)}{(x + 1)(x - 5)}$$

26.
$$\frac{acx - bx + c}{ac - b}$$

28. 1×10^{-10}

30. $1 - 12x^{-4}y^3z^2$