

Problem Set 36 — Even Answers

2. 10 dimes, 5 quarters

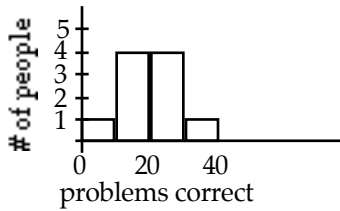
$$4. \quad V = \left(\frac{40}{3} + 5\pi \right) \text{ m}^3 \\ \approx 29.041 \text{ m}^3$$

6. a, b, d

$$8. \quad \{x \in \mathfrak{R} \mid x > -3\}$$

10. 0	9
1	2 6 7 8
2	2 3 3 8
3	2

2 | 3 means 23 problems



$$12a. \quad d = \sqrt{10} \approx 3.162$$

$$b. \quad y = -\frac{1}{3}x + \frac{10}{3}$$

$$14. \quad A = \sqrt{51}, \quad B = \frac{5\sqrt{51}}{7}$$

$$C = \frac{50}{7}$$

$$16. \quad 3(x - 5)(x - 2)$$

$$18. \quad -a^2(x - 7)(x + 5)$$

$$20. \quad \frac{6x + 6}{(x + 3)(x + 2)}$$

$$22. \quad x = -\frac{1}{18}$$

$$24. \quad -1 + 2\sqrt[5]{5}$$

$$26. \quad \frac{26\sqrt{15}}{15}$$

$$28. \quad 1 - 4x$$

$$30. \quad -a^2 p^{-1} x^2 y + 2a^2 p^{-1} xy$$