

Math 303

p. 433

$$\begin{array}{r} \text{\# 1.} \quad \begin{array}{r} 1343 \\ 17.95 \\ 13.59 \\ 14.86 \\ 179.98 \\ + 4.86 \\ \hline 231.24 \end{array} \end{array}$$

The bill was \$231.24.

$$\begin{array}{r} \text{\# 3.} \quad 73.245 \\ - 0.24 \\ \hline 73.005 \end{array}$$

The stock price was 73.005 before the rise.

\#2. (a)

8.2	1.9	6.4	8.2
3.7	5.5	7.3	5.5
4.6	9.1	2.8	+2.8
			<u>16.5</u>

$$16.5 - (8.2 + 3.7) = 4.6$$

$$16.5 - (3.7 + 5.5) = 7.3$$

$$16.5 - (9.1 + 5.5) = 1.9$$

$$16.5 - (7.3 + 2.8) = 6.4$$

(b) Yes.

$$(c) 16.5 + 3(0.85) = 16.5 + 2.55 = 19.05$$

\#8. (a) 0.9, 1.8, 2.7, 3.6, 4.5, 5.4, 6.3, 7.2, ...
arithmetic with difference of 0.9

$$\begin{aligned} \text{\# 10.} \quad 0.2222 &= \frac{2}{10} + \frac{2}{100} + \frac{2}{1000} + \frac{2}{10,000} \\ &= \frac{2}{10} + \frac{2}{10} \cdot \frac{1}{10} + \frac{2}{10} \cdot \left(\frac{1}{10}\right)^2 + \frac{2}{10} \cdot \left(\frac{1}{10}\right)^3 \end{aligned}$$

$$\begin{array}{r} \text{\# 13.} \quad \begin{array}{r} 32 \\ 3.21 \\ 14.56 \\ 12.44 \\ 6.98 \\ 9.51 \\ + 7.49 \\ \hline 54.19 \end{array} \end{array}$$

If the person's checkbook is correct, the bank balance is \$7.74 above the correct balance.

- \#18. (a) 200 (d) 203.7
 (b) 200 (e) 203.65
 (c) 204

Worksheet

$$\begin{array}{r} \#3. (a) \quad 4.35 \\ + 27.8 \\ \hline 32.15 \end{array}$$

$$\begin{array}{r} (c) \quad 873. \\ + 4.76 \\ \hline 877.76 \end{array}$$

$$\begin{array}{r} (e) \quad 456. \\ \quad 45.7 \\ \quad 5.38 \\ + 70.8 \\ \hline 577.88 \end{array}$$

$$\begin{array}{r} (h) \quad 14.7^{610} \\ - 9.34 \\ \hline 5.36 \end{array}$$

$$\begin{array}{r} (j) \quad 0.625^{512} \\ - 0.25 \\ \hline 0.375 \end{array}$$