## LESSONS AND INVESTIGATIONS

4. B. 0.2

5. $-1, 0, 0.102, 0.12, 1.02, 1.20$

6.
$$
\begin{array}{r}
0.1 \\
0.2 \\
0.3 \\
+ \ 0.4 \\
\hline
1.0 \ \text{or} \ 1
\end{array}
$$

7.
$$
\begin{array}{r}
0.125 \\
\times \quad 8 \\
\hline
1.000 \ \text{or} \ 1
\end{array}
$$

8. $3 - 2.1 = r$
$$
\begin{array}{r}
\overset{2}{\cancel{3}}.{}^{1}0 \\
- \ 2.1 \\
\hline
0.9 \ \text{mile}
\end{array}
$$

9.
$$
\begin{array}{r}
5000 \\
8000 \\
+ \ 7000 \\
\hline
20,000
\end{array}
$$

10.
$$
\begin{array}{r}
0.018 \\
8\overline{)0.144} \\
\underline{0\ 0} \\
14 \\
\underline{8} \\
64 \\
\underline{64} \\
0
\end{array}
$$

11.
$$
\begin{array}{r}
0.15 \\
6\overline{)0.90} \\
\underline{6} \\
30 \\
\underline{30} \\
0
\end{array}
$$

12.
$$
\begin{array}{r}
0.225 \\
4\overline{)0.900} \\
\underline{8} \\
10 \\
\underline{8} \\
20 \\
\underline{20} \\
0
\end{array}
$$

13. $\$0.39 \times 100$

    $\$39.00$

14. 50.64

15. Multiples of 6
    6, 12, 18, ⑳4, 30, 36
    Multiples of 8
    8, 16, ㉔, 32, 40
    LCM is **24**.

16. $7\frac{7}{12} + 5\frac{5}{12} = 12\frac{12}{12} = 13$

    $w = 13$

17.
$$
\begin{array}{ccc}
12 & \xrightarrow{\ 11 + \frac{3}{3}\ } & 11\frac{3}{3} \\
- \ 5\frac{2}{3} & & - \ 5\frac{2}{3} \\
\hline
& & 6\frac{1}{3}
\end{array}
$$

    $m = 6\frac{1}{3}$

18.
$$
\begin{array}{ccc}
5\frac{1}{4} & \xrightarrow{\ 4 + \frac{4}{4} + \frac{1}{4}\ } & 4\frac{5}{4} \\
- \ 2\frac{3}{4} & & - \ 2\frac{3}{4} \\
\hline
& & 2\frac{2}{4} = 2\frac{1}{2}
\end{array}
$$

    $n = 2\frac{1}{2}$

19.
$$
\begin{array}{r}
\overset{3}{\cancel{4}}.\overset{9}{\cancel{0}}{}^{1}0 \\
- \ 3.21 \\
\hline
0.79
\end{array}
$$

    $x = 0.79$

20. $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$

21. $3 + 5 - 12$
    $8 - 12$
    $-4$

22. $C = \pi d$
    $C \approx (3.14)(2 \text{ cm})$
    $C = 6.28 \text{ cm}$
    $\pi$ is a little more than 3, and $3 \times 2$ cm is 6 cm,
    so 6.28 cm is a reasonable answer.

23. $\frac{12}{8} = \frac{3}{2}$

*Saxon Math 7/6—Homeschool*