## LESSONS AND INVESTIGATIONS 14. 50.64 15. Multiples of 6

			6, 12, 18, 24, 30, 36
			Multiples of 8
6.	0.1		8, 16, 24, 32, 40
	0.2		LCM is 24.
	0.3		LCM is 24.
	+ 0.4		7 5 12
	1.0 or 1	16.	$7\frac{7}{12} + 5\frac{5}{12} = 12\frac{12}{12} = 13$
-	0.125		w = 13
7.	0.125		
	× 8		
	1.000 or 1	17.	3
		1/.	$11 + \overline{3}$ 3
			$12 \xrightarrow{11 + \frac{3}{3}} 11 \frac{3}{3}$
8.	3 - 2.1 = r		$\frac{-5\frac{2}{3}}{-5\frac{2}{3}} - \frac{-5\frac{2}{3}}{-5\frac{1}{3}}$
	,		$-5\frac{4}{2}$ $-5\frac{4}{2}$
	ž.10		
	$\frac{-2.1}{0.9}$ mile		61
	0.9 mile		° 3
	0. 9 mile		
			$m = 6\frac{1}{3}$
9.	5000		-
	8000		
			4 1
	+ 7000	18.	$4 + \frac{1}{4} + \frac{1}{4}$ 5
	20,000		$5\frac{1}{4} \longrightarrow 4\frac{3}{4}$
			4 4
	0.010		$-2\frac{3}{4}$ $-2\frac{3}{4}$
	0.018		4
10.	8)0.144		$2^{\frac{2}{2}} - 2^{\frac{1}{2}}$
	0.0		
			2 4 2 2
	14		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	14		$n = 2\frac{1}{2}$
	14		$n = 2\frac{1}{2}$
	14 8 64		$n = 2\frac{1}{2}$
	14 8 64 64	19.	$n = 2\frac{1}{2}$
	14 8 64	19.	$n = 2\frac{1}{2}$
	14 8 64 64	19.	$n = 2\frac{1}{2}$
	$ \begin{array}{r} 14\\ \underline{8}\\ \underline{64}\\ \underline{64}\\ 0 \end{array} $	19.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{6}}_{10}}{-3, 21}$ $0, 79$
	$ \begin{array}{c}     14 \\     8 \\     64 \\     64 \\     0 \end{array} $ 0.15	19.	$n = 2\frac{1}{2}$
11.	$ \begin{array}{r}     14 \\     8 \\     64 \\     64 \\     \hline     6 \\     0 \\     \hline   \end{array} $	19.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{6}}_{10}}{-3, 21}$ $0, 79$
11.	$ \begin{array}{c}     14 \\     8 \\     64 \\     64 \\     \hline     6 \\     \hline   \end{array} $		$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}}{\overset{9}{\cancel{10}}}_{-\frac{3}{\cancel{2}}, \frac{2}{\cancel{10}}, \frac{1}{\cancel{9}}}_{x} = 0.79$
11.	$ \begin{array}{r}     14 \\     \underline{8} \\     \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\       \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\        \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\        \underline{64} \\       \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\                                    $		$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}}{\overset{9}{\cancel{10}}}_{-\frac{3}{\cancel{2}}, \frac{2}{\cancel{10}}, \frac{1}{\cancel{9}}}_{x} = 0.79$
11.	$ \begin{array}{c}     14 \\     \underline{8} \\     \underline{64} \\     \underline{64} \\     \underline{64} \\     \underline{64} \\     \underline{64} \\     \underline{6} \\     \underline{6} \\     \underline{0} \\     \underline{90} \\     \underline{6} \\     \underline{30} \\     \underline{30} \\   \end{array} $		$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{6}}_{10}}{-3, 21}$ $0, 79$
11.	$ \begin{array}{r}     14 \\     \underline{8} \\     \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\       \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\      \underline{64} \\        \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\       \underline{64} \\        \underline{64} \\       \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\        \underline{64} \\                                    $		$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}}{\overset{9}{\cancel{10}}}_{-\frac{3}{\cancel{2}}, \frac{2}{\cancel{10}}, \frac{1}{\cancel{9}}}_{x} = 0.79$
11.	$ \begin{array}{c}     14 \\     \underline{8} \\     \underline{64} \\     \underline{64} \\     \underline{64} \\     \underline{64} \\     \underline{64} \\     \underline{6} \\     \underline{6} \\     \underline{0} \\     \underline{90} \\     \underline{6} \\     \underline{30} \\     \underline{30} \\   \end{array} $	20.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{-3, 21}$ $\frac{-3, 21}{0, 79}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$
11.	$ \begin{array}{r}     14 \\             \underline{8} \\             \underline{64} \\           $	20.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{\overset{-3}{\cancel{2}}, 21}$ $\frac{3}{\cancel{0}}, \frac{2}{\cancel{9}}_{12}}{\overset{0}{\cancel{7}}, \frac{9}{\cancel{9}}_{2}}$ $x = 0.79$ $\frac{2}{\cancel{3}} \times \frac{3}{\cancel{4}} = \frac{6}{\cancel{12}} = \frac{1}{\cancel{2}}$ $3 + 5 - \cancel{12}$
	$ \begin{array}{c}     14 \\             \underline{8} \\             \underline{64} \\             \underline{65} \\             \underline{30} \\             \underline{30} \\             \underline{0} \\             \underline{0.225} \\             \end{array} $	20.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{\overset{-3}{\cancel{2}}, 2\frac{1}{9}}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $3 + 5 - 12$ $8 - 12$
	$ \begin{array}{c}     14 \\             \underline{8} \\             \underline{64} \\             \underline{60} \\             \underline{60} \\             \underline{30} \\           $	20.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{\overset{-3}{\cancel{2}}, 21}$ $\frac{3}{\cancel{0}}, \frac{2}{\cancel{9}}_{12}}{\overset{0}{\cancel{7}}, \frac{9}{\cancel{9}}_{2}}$ $x = 0.79$ $\frac{2}{\cancel{3}} \times \frac{3}{\cancel{4}} = \frac{6}{\cancel{12}} = \frac{1}{\cancel{2}}$ $3 + 5 - \cancel{12}$
	$ \begin{array}{c}     14 \\             \underline{8} \\             \underline{64} \\             \underline{60} \\             \underline{60} \\             \underline{30} \\           $	20.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{\overset{-3}{\cancel{2}}, 2\frac{1}{9}}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $3 + 5 - 12$ $8 - 12$
	$ \begin{array}{c} 14 \\ \frac{8}{64} \\ \frac{64}{0} \\ 6\overline{)0.90} \\ \underline{6} \\ 30 \\ 30 \\ 30 \\ 0 \\ 0 \\ \underline{30} \\ 0 \\ 8 \\ 10 \\ \end{array} $	20. 21.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{\overset{-3}{\cancel{2}}, 21}$ $\frac{3}{\cancel{0}}, \frac{2}{\cancel{7}}, 9$ $x = 0.79$ $\frac{2}{\cancel{3}} \times \frac{3}{\cancel{4}} = \frac{6}{\cancel{12}} = \frac{1}{\cancel{2}}$ $3 + 5 - \cancel{12}$ $8 - \cancel{12}$ $-\cancel{4}$
	$ \begin{array}{c} 14 \\ \frac{8}{64} \\ \frac{64}{0} \\ 6\overline{)0.90} \\ \underline{6} \\ 30 \\ 30 \\ 30 \\ 0 \\ 0 \\ \underline{30} \\ 0 \\ 8 \\ 10 \\ \end{array} $	20. 21.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{\overset{-3}{\cancel{2}}, 21}$ $\frac{3}{\cancel{0}}, \frac{2}{\cancel{9}}_{12}}{\overset{0}{\cancel{7}}, \frac{9}{\cancel{9}}_{2}}$ $x = 0.79$ $\frac{2}{\cancel{3}} \times \frac{3}{\cancel{4}} = \frac{6}{\cancel{12}} = \frac{1}{\cancel{2}}$ $3 + 5 - 12$ $8 - 12$ $-4$ $C = \pi d$
	$ \begin{array}{c} 14 \\ \frac{8}{64} \\ \frac{64}{0} \\ 6\overline{)0.90} \\ \underline{6} \\ 30 \\ 30 \\ 30 \\ 0 \\ 0 \\ \underline{30} \\ 0 \\ 8 \\ 10 \\ \end{array} $	20. 21.	$n = 2\frac{1}{2}$ $\frac{\overset{3}{\cancel{4}}, \overset{9}{\cancel{9}}_{10}}{\overset{-3}{\cancel{2}}, 21}$ $\frac{3}{\cancel{0}}, \frac{2}{\cancel{7}}, 9$ $x = 0.79$ $\frac{2}{\cancel{3}} \times \frac{3}{\cancel{4}} = \frac{6}{\cancel{12}} = \frac{1}{\cancel{2}}$ $3 + 5 - \cancel{12}$ $8 - \cancel{12}$ $-\cancel{4}$
	$ \begin{array}{c} 14 \\ \underline{8} \\ 64 \\ \underline{64} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 30 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{8} \\ 10 \\ \underline{8} \\ 20 \\ \end{array} $	20. 21.	$n = 2\frac{1}{2}$ $\frac{3}{4}\frac{9}{9}0$ $\frac{-3}{2}\frac{21}{0.79}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $3 + 5 - 12$ $8 - 12$ $-4$ $C = \pi d$ $C \approx (3.14)(2 \text{ cm})$
	$ \begin{array}{c} 14 \\ \underline{8} \\ 64 \\ \underline{64} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 30 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{8} \\ 10 \\ \underline{8} \\ 20 \\ \end{array} $	20. 21.	$n = 2\frac{1}{2}$ $\frac{3}{4}\frac{9}{9}0$ $\frac{-3}{2}\frac{21}{0.79}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $3 + 5 - 12$ $8 - 12$ $-4$ $C = \pi d$ $C \approx (3.14) (2 \text{ cm})$ $C = 6.28 \text{ cm}$
	$ \begin{array}{r}     14 \\     \frac{8}{64} \\     \frac{64}{0} \\     \hline                               $	20. 21.	$n = 2\frac{1}{2}$ $\frac{3}{4} \frac{9}{9^{0}0} \frac{-3.21}{0.79}$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $\frac{3}{5} + \frac{5}{12} - 12$ $\frac{3}{-4} + \frac{5}{12} - 12$ $\frac{1}{-4}$ $C = \pi d$ $C \approx (3.14) (2 \text{ cm})$ $C = 6.28 \text{ cm}$ $\pi$ is a little more than 3, and 3 × 2 cm is 6 cm,
	$ \begin{array}{c} 14 \\ \underline{8} \\ 64 \\ \underline{64} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 30 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{8} \\ 10 \\ \underline{8} \\ 20 \\ \end{array} $	20. 21.	$n = 2\frac{1}{2}$ $\frac{3}{4}\frac{9}{9}0$ $\frac{-3}{2}\frac{21}{0.79}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $3 + 5 - 12$ $8 - 12$ $-4$ $C = \pi d$ $C \approx (3.14) (2 \text{ cm})$ $C = 6.28 \text{ cm}$
12.	$ \begin{array}{r}     14 \\     \frac{8}{64} \\     \frac{64}{0} \\     \hline                               $	20. 21.	$n = 2\frac{1}{2}$ $\frac{3}{4}\frac{9}{9}(0)$ $\frac{-3}{2}\frac{21}{0,79}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $3 + 5 - 12$ $8 - 12$ $-4$ $C = \pi d$ $C \approx (3.14)(2 \text{ cm})$ $C = 6.28 \text{ cm}$ $\pi$ is a little more than 3, and 3 × 2 cm is 6 cm,
12.	$ \begin{array}{c} 14 \\ \underline{8} \\ 64 \\ \underline{64} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 0 \\ \underline{6} \\ 30 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{30} \\ 0 \\ \underline{8} \\ 10 \\ \underline{8} \\ 20 \\ \end{array} $	20. 21. 22.	$n = 2\frac{1}{2}$ $\frac{3}{4}\frac{9}{9^{0}0}$ $\frac{-3}{2}\frac{21}{0.79}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $\frac{3}{4} + \frac{5}{12} = \frac{1}{2}$ $\frac{1}{2} = \frac{1}{2}$
12.	$ \begin{array}{r}     14 \\     \frac{8}{64} \\     \frac{64}{0} \\     \hline                               $	20. 21. 22.	$n = 2\frac{1}{2}$ $\frac{3}{4}\frac{9}{9}(0)$ $\frac{-3}{2}\frac{21}{0,79}$ $x = 0.79$ $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ $3 + 5 - 12$ $8 - 12$ $-4$ $C = \pi d$ $C \approx (3.14)(2 \text{ cm})$ $C = 6.28 \text{ cm}$ $\pi$ is a little more than 3, and 3 × 2 cm is 6 cm,

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4. B. 0.2

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

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