

1-3.	16	10000	20	10	24	(111000001130) = 18 (164) (D) .85-1
	17	10001	21	11	25	(111001110131) = 19 (858) (4)
	18	10010	22	12	26	11010 32 10101A.000 110 .85-1
	19	10011	23	13	27	11011 33 00101B.10 1100
	20	10100	24	14	28	11100 34 11C C .85-1
	21	10101	25	15	29	11101 35 11D 1
	22	10110	26	16	30	11110 36 11E
	23	10111	27	17	31	11111 37 11F

1-9.	369.3125	101110001.0101	561.24	171.5
	189.625	1011101.101	275.5	BD.A
	214.625	11010110.101	326.5	D6.A
	62407.625	1111001111000111.101	171707.5	F37.A

1-12	(a)	1010 x 1100 0000 0000 1010 1010 1111000	(b)	0110 x 1001 0110 0000 0000 0110 0110110	(c)	1111001 x 011101 110110110101
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1-13. $101 \overline{) 1010110}$

101

00110

101

1

1-16. (a) $11r^2 + 14r + 14 = 2699 \quad \therefore r = 15.$

(b) $3r^2 + 6r + 5 = 194 \quad \therefore r = 7.$



$$1-18. (a) (4867)_{10} = (1001100000011)_2$$

$$(b) (378.75)_{10} = (10111010.11)_2$$

$$1-19. 0111000110101$$

$$001101010100$$

$$1-28. \begin{array}{r} 0 \\ 1 \\ \hline 0 \end{array} \Rightarrow \begin{array}{r} 00 \\ 11 \\ \hline 01 \\ 01 \\ 01 \\ 00 \end{array} \Rightarrow \begin{array}{r} 00 \\ 11 \\ \hline 01 \\ 01 \\ 01 \\ 00 \end{array} \Rightarrow \begin{array}{r} 00 \\ 11 \\ \hline 01 \\ 01 \\ 01 \\ 00 \end{array}$$

$$0000$$

$$0001$$

$$0011$$

$$0010$$

$$0110$$

$$0111$$

$$0101$$

$$0100$$

$$1100$$

$$1101$$

$$1111$$

$$1110$$

$$1010$$

$$1011$$

$$1001$$

$$1000$$

$$1000$$

