



Nombre de la práctica	CONVERSIÓN DE DECIMAL A OCTAL		No.	2
Asignatura:	MATEMATICAS DISCRETAS	Carrera:	ING. EN SISTEMAS COMPUTACIONALES	SALON 3101

**I. Competencia(s) específica(s):**

Comprender y conocer a detalle el tema de la conversión de decimales a octales, resolver los ejercicios con rapidez y facilidad. Entender su aplicación e importancia en la vida diaria.

**II. Lugar de realización de la práctica (laboratorio, taller, aula u otro):**

Aula y hogar del alumno(a)

**III. Material empleado:**

Hojas, bolígrafo, lápiz, goma, sacapuntas, corrector, laptop

**IV. Desarrollo de la práctica:**

- Escribir los ejercicios en hojas blancas (guardando el espacio suficiente para resolverlos)
- Resolver los ejercicios con su correcto procedimiento (orden y limpieza)
- Crear el documento de la práctica y llenar los espacios correspondientes
- Tomar foto a los ejercicios e incluirlos al documento de la práctica
- Subir el documento en PDF a Classroom

**V. Conclusiones:**

Comprendí de manera muy clara como convertir un numero decimal a octal, es muy interesante saber que con una serie de números octales puede tener una gran variedad de funciones en el mundo digital y tecnológico, que nos permiten facilitarnos cumplir nuestras necesidades básicas.

**PROCEDIMIENTO:**

## Decimal - Octal

$$417_{10} \rightarrow 641_8$$

$$\begin{array}{l} 417/8 = 52.12 \\ 52/8 = 6.5 \\ 6/8 = 0.75 \end{array}$$

$$733_{10} \rightarrow 1335_8$$

$$\begin{array}{l} 733/8 = 91.6 \\ 91/8 = 11.3 \\ 11/8 = 1.3 \\ 1/8 = 0 \end{array}$$

$$821_{10} \rightarrow 1465_8$$

$$\begin{array}{l} 821/8 = 102.6 \\ 102/8 = 12.4 \\ 12/8 = 1.5 \\ 1/8 = 0 \end{array}$$

$$829_{10} \rightarrow 1475_8$$

$$\begin{array}{l} 829/8 = 103.6 \\ 103/8 = 12.84 \\ 12/8 = 1.5 \\ 1/8 = 0.125 \end{array}$$

$$825_{10} \rightarrow 1471_8$$

$$\begin{array}{l} 825/8 = 103.1 \\ 103/8 = 12.8 \\ 12/8 = 1.5 \\ 1/8 = 0 \end{array}$$

$$221_{10} \rightarrow 335_8$$

$$\begin{array}{l} 221/8 = 27.6 \\ 27/8 = 3.3 \\ 3/8 = 0 \end{array}$$

$$429_{10} \rightarrow 655_8$$

$$\begin{array}{l} 429/8 = 53.6 \\ 53/8 = 6.6 \\ 6/8 = 0.75 \end{array}$$

$$233_{10} \rightarrow 351_8$$

$$\begin{array}{l} 233/8 = 29.1 \\ 29/8 = 3.6 \\ 3/8 = 0 \end{array}$$

$$773_{10} \rightarrow 1405_8$$

$$\begin{array}{l} 773/8 = 96.6 \\ 96/8 = 12 \\ 12/8 = 1.5 \\ 1/8 = 0 \end{array}$$

$$113_{10} \rightarrow 161_8$$

$$\begin{array}{l} 113/8 = 14.1 \\ 14/8 = 1.7 \\ 1/8 = 0.1 \end{array}$$

$$361_{10} \rightarrow 551_8$$

$$\begin{array}{l} 361/8 = 45.1 \\ 45/8 = 5.6 \\ 5/8 = 0 \end{array}$$

$$733_{10} \rightarrow 1335_8$$

$$\begin{array}{l} 733/8 = 91.6 \\ 91/8 = 11.3 \\ 11/8 = 1.3 \\ 1/8 = 0 \end{array}$$

$$833_{10} \rightarrow 1501_8$$

$$\begin{array}{l} 833/8 = 104.1 \\ 104/8 = 13 \\ 13/8 = 1.6 \\ 1/8 = 0.1 \end{array}$$

$$269_{10} \rightarrow 418_8$$

$$\begin{array}{l} 269/8 = 33.6 \\ 33/8 = 4.1 \\ 4/8 = 0 \end{array}$$

$$689_{10} \rightarrow 1201_8$$

$$\begin{array}{l} 689/8 = 86.1 \\ 86/8 = 10.4 \\ 10/8 = 1.2 \\ 1/8 = 0 \end{array}$$

$$181_{10} \rightarrow 265_8$$

$$\begin{array}{l} 181/8 = 22.6 \\ 22/8 = 2.7 \\ 2/8 = 0 \end{array}$$

$$913_{10} \rightarrow 1621_8$$

$$\begin{array}{l} 913/8 = 114.1 \\ 114/8 = 14.2 \\ 14/8 = 1.7 \\ 1/8 = 0 \end{array}$$

$$869_{10} \rightarrow 1545_8$$

$$\begin{array}{l} 869/8 = 108.6 \\ 108/8 = 13.5 \\ 13/8 = 1.6 \\ 1/8 = 0 \end{array}$$

$245_{10} \rightarrow 365_8$	$285_{10} \rightarrow 435_8$	$89_{10} \rightarrow 131_8$
$245/8 = 30.6$ 5	$285/8 = 35.6$ 5	$89/8 = 11.1$ 3
$30/8 = 3.7$ 6	$35/8 = 4.3$ 3	$11/8 = 1.3$ 3
$3/8 = 0$ 5	$4/8 = 0$ 4	$1/8 = 0$ 1
$521_{10} \rightarrow 10111_8$	$513_{10} \rightarrow 10111_8$	$281_{10} \rightarrow 431_8$
$521/8 = 65.12$ 1	$513/8 = 64.1$ 1	$281/8 = 35.1$ 1
$65/8 = 8.1$ 1	$64/8 = 8$ 0	$35/8 = 4.3$ 3
$8/8 = 1$ 0	$1/8 = 1$ 0	$4/8 = 0$ 1
$1/8 = 0$ 1	$1/8 = 0$ 1	
$349_{10} \rightarrow 535_8$	$113_{10} \rightarrow 161_8$	$341_{10} \rightarrow 525_8$
$349/8 = 43.6$ 5	$113/8 = 14.1$ 1	$341/8 = 42.6$ 5
$43/8 = 5.3$ 3	$14/8 = 1.7$ 6	$42/8 = 5.2$ 2
$5/8 = 0$ 5	$1/8 = 0$ 1	$5/8 = 0$ 1
$909_{10} \rightarrow 1615_8$	$665_{10} \rightarrow 1231_8$	$469_{10} \rightarrow 723_8$
$909/8 = 113.6$ 5	$665/8 = 83.1$ 1	$469/8 = 58.6$ 5
$113/8 = 14.1$ 1	$83/8 = 10.3$ 3	$58/8 = 7.2$ 2
$14/8 = 1.7$ 6	$10/8 = 1.2$ 2	$7/8 = 0$ 1
$1/8 = 0$ 1	$1/8 = 0$ 1	
$721_{10} \rightarrow 1321_8$	$461_{10} \rightarrow 715_8$	$141_{10} \rightarrow 215_8$
$721/8 = 90.1$ 1	$461/8 = 57.1$ 5	$141/8 = 17.1$ 5
$90/8 = 11.2$ 2	$57/8 = 7.1$ 1	$17/8 = 2.1$ 1
$11/8 = 1.3$ 3	$7/8 = 0$ 1	$2/8 = 0$ 1
$1/8 = 0$ 1		
$397_{10} \rightarrow 615_8$	$253_{10} \rightarrow 375_8$	$73_{10} \rightarrow 135_8$
$397/8 = 49.6$ 5	$253/8 = 31.6$ 5	$73/8 = 11.0$ 5
$49/8 = 6.1$ 1	$31/8 = 3.8$ 1	$11/8 = 1.3$ 3
$6/8 = 0$ 6	$3/8 = 0$ 3	$1/8 = 0$ 1

$41_{10} \rightarrow 51_8$	$729_{10} \rightarrow 1331_8$	$53_{10} \rightarrow 65_8$
$11/8 = 5.1$ 1 $5/8 = 0$ 5	$729/8 = 91.1$ 1 $91/8 = 11.3$ 3 $11/8 = 1.3$ 3 $1/8 = 0$ 1	$53/8 = 6.6$ 5 $6/8 = 0$ 6
$825_{10} \rightarrow 1471_8$	$29_{10} \rightarrow 35_8$	$333_{10} \rightarrow 515_8$
$825/8 = 103.1$ 1 $103/8 = 12.8$ 7 $12/8 = 1.5$ 4 $1/8 = 0$ 1	$29/8 = 3.6$ 6 $3/8 = 0$ 3	$333/8 = 41.6$ 5 $41/8 = 5.1$ 1 $5/8 = 0$ 5
$445_{10} \rightarrow 675_8$	$105_{10} \rightarrow 151_8$	$601_{10} \rightarrow 1131_8$
$445/8 = 55.6$ 5 $55/8 = 6.8$ 7 $6/8 = 0$ 6	$105/8 = 13.1$ 1 $13/8 = 1.6$ 5 $1/8 = 0$ 1	$601/8 = 75.1$ 1 $75/8 = 9.3$ 3 $9/8 = 1.1$ 1 $1/8 = 0$ 1
$785_{10} \rightarrow 601_8$	$509_{10} \rightarrow 775_8$	$753_{10} \rightarrow 1361_8$
$785/8 = 98.1$ 1 $98/8 = 12$ 0 $12/8 = 0$ 6	$509/8 = 63.6$ 5 $63/8 = 7.8$ 7 $7/8 = 0$ 7	$753/8 = 94.1$ 1 $94/8 = 11.7$ 6 $11/8 = 1.3$ 3 $1/8 = 0$ 1
$185_{10} \rightarrow 271_8$	$829_{10} \rightarrow 1475_8$	$793_{10} \rightarrow 1931_8$
$185/8 = 23.1$ 1 $23/8 = 2.8$ 7 $2/8 = 0$ 2	$829/8 = 103.6$ 5 $103/8 = 12.8$ 7 $12/8 = 1.5$ 4 $1/8 = 0$ 1	$793/8 = 99.1$ 1 $99/8 = 12.3$ 3 $12/8 = 1.5$ 4 $1/8 = 0$ 1
$697_{10} \rightarrow 1271_8$	$697/8 = 87.1$ 1 $87/8 = 10.8$ 7 $10/8 = 1.2$ 2 $1/8 = 0$ 1	$477_{10} \rightarrow 735_8$ $477/8 = 59.6$ 5 $59/8 = 7.3$ 3 $7/8 = 0$ 7

$257_{10} \rightarrow 4\phi 1_8$		$925_{10} \rightarrow 1635_8$		$853_{10} \rightarrow 1525_8$
$257/8 = 32.1$	1	$925/8 = 115.6$	5	$853/8 = 106.6$
$321/8 = 4$	0	$115/8 = 14.3$	3	$106/8 = 13.2$
$41/8 = 0$	4	$141/8 = 1.7$	6	$13/8 = 1.6$
		$17/8 = 0$	1	$1/8 = 0$
				$813_{10} \rightarrow 1435_8$
		$389_{10} \rightarrow 6\phi 3_8$		$313/8 = 101.6$
$317_{10} \rightarrow 475_8$		$389/8 = 48.6$	5	$101/8 = 12.6$
$317/8 = 39.6$	5	$481/8 = 6$	0	$12/8 = 1.5$
$391/8 = 4.8$	7	$61/8 = 0$	6	$1/8 = 0$
$41/8 = 0$	4			$525_{10} \rightarrow 1015_8$
		$245_{10} \rightarrow 365_8$		$525/8 = 65.6$
		$245/8 = 30.6$	5	$65/8 = 8.1$
$885_{10} \rightarrow 1565_8$		$301/8 = 3.7$	6	$81/8 = 1$
$885/8 = 110.6$	5	$31/8 = 0$	3	$11/8 = 0$
$110/8 = 13.7$	6			$837_{10} \rightarrow 1505_8$
$131/8 = 1.6$	5	$429_{10} \rightarrow 695_8$		$837/8 = 104.6$
$11/8 = 0$	1	$429/8 = 53.6$	5	$104/8 = 13$
		$531/8 = 6.6$	5	$13/8 = 1.6$
$899_{10} \rightarrow 1521_8$		$61/8 = 0$	6	$1/8 = 0$
$899/8 = 106.1$	1			$493_{10} \rightarrow 755_8$
$106/8 = 13.2$	2	$317_{10} \rightarrow 475_8$		$493/8 = 61.6$
$131/8 = 1.6$	5	$317/8 = 39.6$	5	$61/8 = 7.6$
$11/8 = 0$	1	$391/8 = 4.8$	7	$71/8 = 0$
		$41/8 = 0$	4	
$949_{10} \rightarrow 1665_8$		$229_{10} \rightarrow 345_8$		$229_{10} \rightarrow 345_8$
$949/8 = 118.6$	5	$229/8 = 28.6$	5	$229/8 = 28.6$
$118/8 = 14.7$	6	$281/8 = 3.5$	4	$281/8 = 3.5$
$141/8 = 1.7$	6	$31/8 = 0$	3	$31/8 = 0$
$11/8 = 0$	1			

$45S_{10} \rightarrow 137S_8$  $45S18 = 45.6 \quad 5$  $45S18 = 11.8 \quad 7$  $1118 = 1.3 \quad 3$  $118 = 0 \quad 1$  $43F_{10} \rightarrow 65S_8$  $43F18 = 59.6 \quad 5$  $5918 = 6.7 \quad 6$  $618 = 0 \quad 6$  $65D_{10} \rightarrow 121S_8$  $65318 = 81.6 \quad 5$  $8118 = 10.1 \quad 1$  $1018 = 1.2 \quad 2$  $118 = 0 \quad 1$  $253_{10} \rightarrow 37S_8$  $25318 = 31.6 \quad 5$  $3118 = 3.8 \quad 7$  $318 = 0 \quad 3$  $453_{10} \rightarrow 70S_8$  $45318 = 50.6 \quad 5$  $5618 = 7 \quad 0$  $718 = 0 \quad 7$  $589_{10} \rightarrow 111S_8$  $58918 = 73.6 \quad 5$  $7318 = 9.1 \quad 1$  $918 = 1.1 \quad 1$  $118 = 0 \quad 1$  $697_{10} \rightarrow 12718$  $69718 = 87.1 \quad 1$  $8718 = 10.8 \quad 7$  $1018 = 1.2 \quad 2$  $118 = 0 \quad 1$  $97_{10} \rightarrow 1918$  $9718 = 12.1 \quad 1$  $1218 = 1.5 \quad 4$  $118 = 0 \quad 1$  $369_{10} \rightarrow 5618$  $36918 = 46.1 \quad 1$  $4618 = 5.7 \quad 6$  $518 = 0 \quad 5$  $165_{10} \rightarrow 2458$  $16518 = 20.6 \quad 5$  $2018 = 2.5 \quad 4$  $218 = 0 \quad 2$  $829_{10} \rightarrow 147S_8$  $82918 = 103.6 \quad 5$  $10318 = 12.8 \quad 7$  $1218 = 1.5 \quad 4$  $118 = 0 \quad 1$  $429_{10} \rightarrow 65S_8$  $42918 = 53.6 \quad 5$  $5318 = 6.5 \quad 5$  $618 = 0 \quad 6$  $937_{10} \rightarrow 16518$  $93718 = 117.1 \quad 1$  $11718 = 14.6 \quad 5$  $1418 = 1.7 \quad 6$  $118 = 0 \quad 1$  $601_{10} \rightarrow 11318$  $60118 = 75.1 \quad 1$  $7518 = 9.3 \quad 3$  $918 = 1.1 \quad 1$  $118 = 0 \quad 1$  $813_{10} \rightarrow 145S_8$  $81318 = 101.6 \quad 5$  $10118 = 12.6 \quad 5$  $1218 = 1.5 \quad 4$  $118 = 0 \quad 1$  $941_{10} \rightarrow 165S_8$  $94118 = 114.6 \quad 5$  $11718 = 14.0 \quad 5$  $1418 = 1.7 \quad 6$  $118 = 0 \quad 1$  $249_{10} \rightarrow 3718$  $24918 = 31.1 \quad 1$  $3118 = 3.8 \quad 7$  $318 = 0 \quad 3$

$13_{10} \rightarrow 15_8$  $1318 = 1.6 \quad S$   
 $118 = 0 \quad \pm$  $757_{10} \rightarrow 1365_8$  $75718 = 94.6 \quad S$   
 $9918 = 11.7 \quad G$   
 $118 = 1.3 \quad 3$   
 $118 = 0 \quad 1$  $612_{10} \rightarrow 758$  $6118 = 7.6 \quad S$   
 $718 = 0 \quad F$  $289_{10} \rightarrow 441_8$  $28918 = 36.1 \quad 1$   
 $3618 = 4.5 \quad 4$   
 $418 = 0 \quad 4$  $713_{10} \rightarrow 1311_8$  $71318 = 89.1 \quad 1$   
 $8918 = 10.1 \quad 1$   
 $118 = 1.3 \quad 3$   
 $118 = 0 \quad 1$  $229_{10} \rightarrow 345_8$  $22918 = 28.6 \quad S$   
 $2818 = 3.5 \quad 4$   
 $318 = 0 \quad 3$  $77_{10} \rightarrow 115_8$  $7718 = 9.0 \quad S$   
 $918 = 1.1 \quad 1$   
 $118 = 0 \quad \pm$  $33_{10} \rightarrow 41_8$  $3318 = 4.1 \quad \pm$   
 $418 = 0 \quad 4$  $177_{10} \rightarrow 261_8$  $17718 = 22.1 \quad 1$   
 $2218 = 2.7 \quad 6$   
 $218 = 0 \quad 2$  $337_{10} \rightarrow 521_8$  $33718 = 92.1 \quad 1$   
 $4218 = 5.2 \quad 2$   
 $518 = 0 \quad 5$  $69_{10} \rightarrow 105_8$  $6918 = 8.0 \quad S$   
 $818 = 1 \quad 0$   
 $118 = 0 \quad 1$  $341_{10} \rightarrow 525_8$  $34118 = 92.6 \quad S$   
 $4218 = 5.2 \quad 2$   
 $518 = 0 \quad S$  $49_{10} \rightarrow 61_8$  $4918 = 6.1 \quad \pm$   
 $618 = 0 \quad 6$  $685_{10} \rightarrow 1255_8$  $68518 = 89.6 \quad S$   
 $8518 = 10.6 \quad S$   
 $1018 = 1.2 \quad 2$   
 $118 = 0 \quad 1$  $625_{10} \rightarrow 1161_8$  $62518 = 78.1 \quad \pm$   
 $7818 = 9.7 \quad 6$  $277_{10} \rightarrow 425_8$  $27718 = 34.6 \quad S$   
 $3918 = 4.2 \quad 2$   
 $418 = 0 \quad 4$  $269_{10} \rightarrow 415_8$  $26918 = 33.6 \quad S$   
 $3318 = 4.1 \quad 1$   
 $418 = 0 \quad 4$  $918 = 1.1 \quad 1$  $118 = 0 \quad 1$  $24_{10} \rightarrow 25_8$  $2118 = 2.6 \quad S$   
 $218 = 0 \quad 2$

$45_{10} \rightarrow 55_8$

$45/8 = 5.6 \quad S$   
 $S18 = 0 \quad S$

$573_{10} \rightarrow 1075_8$

$54318 = 71.6 \quad S$   
 $71/8 = 8.8 \quad ?$   
 $818 = 1 \quad 0$   
 $1/8 = 0 \quad 1$

$801_{10} \rightarrow 1441_8$

$801/8 = 100.1 \quad 1$   
 $100/8 = 12.5 \quad 4$   
 $12/8 = 1.5 \quad 4$   
 $1/8 = 0 \quad 1$

$41_{10} \rightarrow 51_8$

$41/8 = 5.1 \quad 1$   
 $S18 = 0 \quad S$

$841_{10} \rightarrow 1511_8$

$891/8 = 105.1 \quad 1$   
 $10518 = 13.1 \quad 1$   
 $1318 = 1.6 \quad S$   
 $1/8 = 0 \quad 1$

$113_{10} \rightarrow 161_8$

$113/8 = 14.1 \quad 1$   
 $1418 = 1.7 \quad 6$   
 $1/8 = 0 \quad 1$

$424_{10} \rightarrow 655_8$

$424/8 = 53.0 \quad S$   
 $S3/8 = 6.6 \quad S$   
 $618 = 0 \quad 6$

$591_{10} \rightarrow 1125_8$

$59718 = 74.6 \quad S$   
 $7418 = 9.2 \quad 2$   
 $918 = 1.1 \quad 1$   
 $1/8 = 0 \quad 1$

$797_{10} \rightarrow 1435_8$

$797/8 = 99.6 \quad S$   
 $9918 = 12.3 \quad 3$   
 $1218 = 1.5 \quad 4$   
 $1/8 = 0 \quad 1$

$205_{10} \rightarrow 315_8$

$205/8 = 25.6 \quad S$   
 $2518 = 3.1 \quad 1$   
 $318 = 0 \quad 3$

$701_{10} \rightarrow 1275_8$

$701/8 = 87.6 \quad S$   
 $8718 = 10.8 \quad ?$   
 $1018 = 1.2 \quad 2$   
 $1/8 = 0 \quad 1$

$645_{10} \rightarrow 1205_8$

$645/8 = 80.6 \quad S$   
 $8018 = 10 \quad 0$   
 $1018 = 1.2 \quad 2$   
 $1/8 = 0 \quad 1$

$345_{10} \rightarrow 531_8$

$345/8 = 43.1 \quad 1$   
 $4318 = 5.3 \quad 3$   
 $S18 = 0 \quad S$

$643_{10} \rightarrow 1415_8$

$643/8 = 121.6 \quad S$   
 $1218 = 15.1 \quad 1$   
 $1518 = 1.8 \quad ?$   
 $1/8 = 0 \quad 1$

$389_{10} \rightarrow 605_8$

$389/8 = 48.6 \quad S$   
 $4818 = 6 \quad 0$   
 $618 = 0 \quad 6$

$21_{10} \rightarrow 25_8$

$21/8 = 2.6 \quad S$   
 $218 = 0 \quad 2$

$197_{10} \rightarrow 305_8$

$197/8 = 24.6 \quad S$   
 $2418 = 3 \quad 0$   
 $318 = 0 \quad 3$

$625_{10} \rightarrow 1161_8$

$625/8 = 78.1 \quad 1$   
 $7818 = 9.7 \quad 6$   
 $918 = 1.1 \quad 1$   
 $1/8 = 0 \quad 1$

$253_{10} \rightarrow 375_8$	$601_{10} \rightarrow 1131_8$	$57_{10} \rightarrow 71_8$
$253/8 = 31.6$ S	$601/8 = 75.1$ 1	$57/8 = 7.1$ 1
$31/8 = 3.8$ 7	$75/8 = 9.3$ 3	$7/8 = 0$ 7
$3/8 = 0$ 3	$9/8 = 1.1$ 1	
	$1/8 = 0$ 1	
$65_{10} \rightarrow 101_8$	$369_{10} \rightarrow 561_8$	$733_{10} \rightarrow 1335_8$
$65/8 = 8.1$ 1	$369/8 = 46.1$ 1	$733/8 = 91.6$ 5
$8/8 = 1$ 0	$46/8 = 5.7$ 6	$11/8 = 1.3$ 3
$1/8 = 0$ 1	$5/8 = 0$ 5	$1/8 = 0$ 1
$973_{10} \rightarrow 1719_8$	$861_{10} \rightarrow 1535_8$	$13_{10} \rightarrow 15_8$
$973/8 = 121.6$ S	$861/8 = 107.6$ 5	$13/8 = 1.6$ 5
$121/8 = 15.1$ 1	$107/8 = 13.3$ 3	$1/8 = 0$ 1
$15/8 = 1.8$ 7	$13/8 = 1.6$ 5	
$1/8 = 0$ 1	$1/8 = 0$ 1	
$857_{10} \rightarrow 1531_8$	$145_{10} \rightarrow 221_8$	$273_{10} \rightarrow 421_8$
$857/8 = 107.1$ 1	$145/8 = 18.1$ 1	$273/8 = 34.1$ 1
$107/8 = 13.3$ 3	$18/8 = 2.2$ 2	$34/8 = 4.2$ 2
$13/8 = 1.6$ 5	$2/8 = 0$ 2	$4/8 = 0$ 4
$1/8 = 0$ 1		
$617_{10} \rightarrow 1151_8$	$725_{10} \rightarrow 1325_8$	$797_{10} \rightarrow 1435_8$
$617/8 = 77.1$ 1	$725/8 = 90.6$ 5	$797/8 = 99.6$ 5
$77/8 = 9.6$ 5	$90/8 = 11.2$ 2	$99/8 = 12.3$ 3
$9/8 = 1.1$ 1	$11/8 = 1.3$ 3	$12/8 = 1.5$ 4
$1/8 = 0$ 1	$1/8 = 0$ 1	$1/8 = 0$ 1
$557_{10} \rightarrow 1055_8$		$53_{10} \rightarrow 65_8$
$557/8 = 69.6$ 5		$53/8 = 6.6$ 5
$69/8 = 8.6$ 5		$6/8 = 0$ 6
$8/8 = 1$ 0		
$1/8 = 0$ 1		

$693_{10} \rightarrow 1265_8$

$693/8 = 86.6$	5
$86/8 = 10.7$	6
$10/8 = 1.2$	2
$1/8 = 0$	1

$143_{10} \rightarrow 301_8$

$143/8 = 18.1$	1
$18/8 = 2.2$	2
$2/8 = 0$	1

$617_{10} \rightarrow 1151_8$

$617/8 = 77.1$	1
$77/8 = 9.1$	5
$9/8 = 1.1$	1
$1/8 = 0$	1

$245_{10} \rightarrow 365_8$

$245/8 = 30.6$	5
$30/8 = 3.7$	6
$3/8 = 0$	3

$653_{10} \rightarrow 1215_8$

$653/8 = 81.6$	5
$81/8 = 10.1$	4
$10/8 = 1.2$	2
$1/8 = 0$	1

$329_{10} \rightarrow 511_8$

$329/8 = 41.1$	1
$41/8 = 5.1$	1
$5/8 = 0$	5

$921_{10} \rightarrow 1631_8$

$921/8 = 115.1$	1
$115/8 = 14.3$	3
$14/8 = 1.7$	6
$1/8 = 0$	1

$57_{10} \rightarrow 71_8$

$57/8 = 7.1$	1
$7/8 = 0$	7

$765_{10} \rightarrow 1375_8$

$765/8 = 95.6$	5
$95/8 = 11.8$	7
$11/8 = 1.3$	3
$1/8 = 0$	1

$477_{10} \rightarrow 735_8$

$477/8 = 59.6$	5
$59/8 = 7.3$	3
$7/8 = 0$	7

$373_{10} \rightarrow 565_8$

$373/8 = 46.6$	5
$46/8 = 5.7$	6
$5/8 = 0$	5

$329_{10} \rightarrow 511_8$

$329/8 = 41.1$	1
$41/8 = 5.1$	1
$5/8 = 0$	5

$453_{10} \rightarrow 705_8$

$453/8 = 56.6$	5
$56/8 = 7$	0
$7/8 = 0$	7

$33_{10} \rightarrow 41_8$

$33/8 = 4.1$	1
$4/8 = 0$	4

$437_{10} \rightarrow 665_8$

$437/8 = 54.6$	5
$54/8 = 6.7$	6
$6/8 = 0$	6

$661_{10} \rightarrow 1225_8$

$661/8 = 82.6$	5
$82/8 = 10.2$	2
$10/8 = 1.2$	2
$1/8 = 0$	1

$677_{10} \rightarrow 1245_8$

$677/8 = 84.6$	5
$84/8 = 10.5$	4
$10/8 = 1.2$	2
$1/8 = 0$	1

$433_{10} \rightarrow 661_8$

$433/8 = 54.1$	1
$54/8 = 6.7$	6
$6/8 = 0$	6

$413_{10} \rightarrow 635_8$ 

$$\begin{array}{ll} 413/8 = 51.6 & 5 \\ 51/8 = 6.3 & 3 \\ 6/8 = 0 & 6 \end{array}$$

 $41_{10} \rightarrow 51_8$ 

$$\begin{array}{ll} 41/8 = 5.1 & 1 \\ 5/8 = 0 & 5 \end{array}$$

 $377_{10} \rightarrow 571_8$ 

$$\begin{array}{ll} 377/8 = 47.1 & 1 \\ 47/8 = 5.8 & 7 \\ 5/8 = 0 & 5 \end{array}$$

 $969_{10} \rightarrow 1711_8$ 

$$\begin{array}{ll} 969/8 = 121.1 & 1 \\ 121/8 = 15.1 & 1 \\ 15/8 = 1.8 & 7 \\ 1/8 = 0 & 1 \end{array}$$

 $373_{10} \rightarrow 565_8$ 

$$\begin{array}{ll} 373/8 = 46.6 & 5 \\ 46/8 = 5.7 & 6 \\ 5/8 = 0 & 5 \end{array}$$

 $577_{10} \rightarrow 1101_8$ 

$$\begin{array}{ll} 577/8 = 72.1 & 1 \\ 72/8 = 9 & 0 \\ 9/8 = 1.1 & 1 \\ 1/8 = 0 & 1 \end{array}$$

 $365_{10} \rightarrow 555_8$ 

$$\begin{array}{ll} 365/8 = 45.6 & 5 \\ 45/8 = 5.6 & 5 \\ 5/8 = 0 & 5 \end{array}$$

 $185_{10} \rightarrow 271_8$ 

$$\begin{array}{ll} 185/8 = 23.1 & 1 \\ 23/8 = 2.8 & 7 \\ 2/8 = 0 & 2 \end{array}$$

 $201_{10} \rightarrow 311_8$ 

$$\begin{array}{ll} 201/8 = 25.1 & 1 \\ 25/8 = 3.1 & 1 \\ 3/8 = 0 & 3 \end{array}$$

 $973_{10} \rightarrow 1715_8$ 

$$\begin{array}{ll} 973/8 = 121.6 & 5 \\ 121/8 = 15.1 & 1 \\ 15/8 = 1.8 & 7 \\ 1/8 = 0 & 1 \end{array}$$

 $781_{10} \rightarrow 1415_8$ 

$$\begin{array}{ll} 781/8 = 97.6 & 5 \\ 97/8 = 12.1 & 1 \\ 12/8 = 1.5 & 4 \\ 1/8 = 0 & 1 \end{array}$$

 $977_{10} \rightarrow 1721_8$ 

$$\begin{array}{ll} 977/8 = 122.1 & 1 \\ 122/8 = 15.2 & 2 \\ 15/8 = 1.8 & 7 \\ 1/8 = 0 & 1 \end{array}$$

 $397_{10} \rightarrow 615_8$ 

$$\begin{array}{ll} 397/8 = 49.6 & 5 \\ 49/8 = 6.1 & 1 \\ 6/8 = 0 & 6 \end{array}$$

 $121_{10} \rightarrow 171_8$ 

$$\begin{array}{ll} 121/8 = 15.1 & 1 \\ 15/8 = 1.8 & 7 \\ 1/8 = 0 & 1 \end{array}$$

 $189_{10} \rightarrow 245_8$ 

$$\begin{array}{ll} 189/8 = 23.9 & 5 \\ 23/8 = 2.8 & 7 \\ 2/8 = 0 & 2 \end{array}$$

 $53_{10} \rightarrow 65_8$ 

$$\begin{array}{ll} 53/8 = 6.6 & 5 \\ 6/8 = 0 & 6 \end{array}$$

 $845_{10} \rightarrow 1515_8$ 

$$\begin{array}{ll} 845/8 = 105.6 & 5 \\ 105/8 = 13.1 & 1 \\ 13/8 = 1.6 & 5 \\ 1/8 = 0 & 1 \end{array}$$

 $701_{10} \rightarrow 1275_8$ 

$$\begin{array}{ll} 701/8 = 87.6 & 5 \\ 87/8 = 10.8 & 7 \\ 10/8 = 1.2 & 2 \\ 1/8 = 0 & 1 \end{array}$$

$617_{10} \rightarrow 1151_8$ 

$617/8 = 77.1$	1
$77/8 = 9.6$	5
$9/8 = 1.1$	1
$1/8 = 0$	1

 $525_{10} \rightarrow 1015_8$ 

$525/8 = 65.6$	5
$65/8 = 8.1$	1
$8/8 = 1$	0
$1/8 = 0$	1

 $185_{10} \rightarrow 271_8$ 

$185/8 = 23.1$	1
$23/8 = 2.8$	7
$2/8 = 0$	2

 $405_{10} \rightarrow 625_8$ 

$405/8 = 50.6$	5
$50/8 = 6.2$	2
$6/8 = 0$	6

 $893_{10} \rightarrow 1575_8$ 

$893/8 = 111.6$	5
$111/8 = 13.8$	7
$13/8 = 1.6$	5
$1/8 = 0$	1

 $673_{10} \rightarrow 1291_8$ 

$673/8 = 84.1$	1
$84/8 = 10.5$	4
$10/8 = 1.2$	2
$1/8 = 0$	1

 $65_{10} \rightarrow 101_8$ 

$65/8 = 8.1$	1
$8/8 = 1$	0
$1/8 = 0$	1

 $225_{10} \rightarrow 341_8$ 

$225/8 = 28.1$	1
$28/8 = 3.5$	4
$3/8 = 0$	3

 $681_{10} \rightarrow 1251_8$ 

$681/8 = 85.1$	1
$85/8 = 10.6$	5
$10/8 = 1.2$	2
$1/8 = 0$	1

 $157_{10} \rightarrow 235_8$ 

$157/8 = 19.6$	5
$19/8 = 2.3$	3
$2/8 = 0$	2

 $685_{10} \rightarrow 1255_8$ 

$685/8 = 85.6$	5
$85/8 = 10.6$	5
$10/8 = 1.2$	2
$1/8 = 0$	1

 $249_{10} \rightarrow 371_8$ 

$249/8 = 31.1$	1
$31/8 = 3.8$	7
$3/8 = 0$	3

 $409_{10} \rightarrow 631_8$ 

$409/8 = 51.1$	1
$51/8 = 6.3$	3
$6/8 = 0$	6

 $249_{10} \rightarrow 371_8$ 

$249/8 = 31.1$	1
$31/8 = 3.8$	7
$3/8 = 0$	3

 $505_{10} \rightarrow 771_8$ 

$505/8 = 63.1$	1
$63/8 = 7.8$	7
$7/8 = 0$	7

 $745_{10} \rightarrow 1351_8$ 

$745/8 = 93.1$	1
$93/8 = 11.6$	5
$11/8 = 1.3$	3
$1/8 = 0$	1

$309_{10} \rightarrow 445_8$

$$\begin{array}{ll} 309/8 = 38.6 & 5 \\ 38/8 = 4.7 & 4 \\ 4/8 = 0 & 4 \end{array}$$

$133_{10} \rightarrow 205_8$

$$\begin{array}{ll} 133/8 = 16.6 & 5 \\ 16/8 = 2 & 0 \\ 2/8 = 0 & 2 \end{array}$$

$347_{10} \rightarrow 615_8$

$$\begin{array}{ll} 347/8 = 43.6 & 5 \\ 43/8 = 5.4 & 4 \\ 5/8 = 0 & 6 \end{array}$$

$129_{10} \rightarrow 201_8$

$$\begin{array}{ll} 129/8 = 16.1 & 4 \\ 16/8 = 2 & 0 \\ 2/8 = 0 & 2 \end{array}$$

$565_{10} \rightarrow 1065_8$

$$\begin{array}{ll} 565/8 = 70.6 & 5 \\ 70/8 = 8.7 & 6 \\ 8/8 = 1 & 0 \\ 1/8 = 0 & 1 \end{array}$$

$357_{10} \rightarrow 545_8$

$$\begin{array}{ll} 357/8 = 44.6 & 5 \\ 44/8 = 5.5 & 4 \\ 5/8 = 0 & 5 \end{array}$$

$157_{10} \rightarrow 235_8$

$$\begin{array}{ll} 157/8 = 19.6 & 5 \\ 19/8 = 2.3 & 3 \\ 2/8 = 0 & 2 \end{array}$$

$457_{10} \rightarrow 711_8$

$$\begin{array}{ll} 457/8 = 57.1 & 1 \\ 57/8 = 7.1 & 1 \\ 7/8 = 0 & 7 \end{array}$$

$641_{10} \rightarrow 1201_8$

$$\begin{array}{ll} 641/8 = 80.1 & 1 \\ 80/8 = 10 & 0 \\ 10/8 = 1.2 & 2 \\ 1/8 = 0 & 0 \end{array}$$

$541_{10} \rightarrow 1035_8$

$$\begin{array}{ll} 541/8 = 67.6 & 5 \\ 67/8 = 8.3 & 3 \\ 8/8 = 1 & 0 \\ 1/8 = 0 & 1 \end{array}$$

$877_{10} \rightarrow 1555_8$

$$\begin{array}{ll} 877/8 = 109.6 & 5 \\ 109/8 = 13.6 & 5 \\ 13/8 = 1.6 & 5 \\ 1/8 = 0 & 1 \end{array}$$

$165_{10} \rightarrow 245_8$

$$\begin{array}{ll} 165/8 = 20.6 & 5 \\ 20/8 = 2.5 & 4 \\ 2/8 = 0 & 2 \end{array}$$

$641_{10} \rightarrow 1201_8$

$$\begin{array}{ll} 641/8 = 80.1 & 1 \\ 80/8 = 10 & 0 \\ 10/8 = 1.2 & 2 \\ 1/8 = 0 & 1 \end{array}$$

$209_{10} \rightarrow 321_8$

$$\begin{array}{ll} 209/8 = 26.1 & 1 \\ 26/8 = 3.2 & 2 \\ 3/8 = 0 & 3 \end{array}$$

$553_{10} \rightarrow 1051_8$

$$\begin{array}{ll} 553/8 = 69.1 & 4 \\ 69/8 = 8.6 & 5 \\ 8/8 = 1 & 0 \\ 1/8 = 0 & 1 \end{array}$$

$289_{10} \rightarrow 441_8$

$$\begin{array}{ll} 289/8 = 36.1 & 1 \\ 36/8 = 4.5 & 4 \\ 4/8 = 0 & 4 \end{array}$$

$249_{10} \rightarrow 341_8$

$$\begin{array}{ll} 249/8 = 31.1 & 1 \\ 31/8 = 3.8 & 7 \\ 3/8 = 0 & 3 \end{array}$$

$93_{10} \rightarrow 135_8$

$93/8 = 11.6$  5  
 $11/8 = 1.3$  3  
 $1/8 = 0$  1

$473_{10} \rightarrow 731_8$

$473/8 = 59.1$  1  
 $59/8 = 7.3$  3  
 $7/8 = 0$  1

$469_{10} \rightarrow 725_8$

$469/8 = 58.6$  5  
 $58/8 = 7.2$  2  
 $7/8 = 0$  1

$737_{10} \rightarrow 1341_8$

$737/8 = 92.1$  1  
 $92/8 = 11.5$  4  
 $11/8 = 1.3$  3  
 $1/8 = 0$  1

$477_{10} \rightarrow 735_8$

$477/8 = 59.6$  5  
 $59/8 = 7.3$  3  
 $7/8 = 0$  1

$421_{10} \rightarrow 645_8$

$421/8 = 52.6$  5  
 $52/8 = 6.5$  4  
 $6/8 = 0$  1

$489_{10} \rightarrow 751_8$

$489/8 = 61.1$  1  
 $61/8 = 7.6$  5  
 $7/8 = 0$  1

$13_{10} \rightarrow 15_8$

$13/8 = 1.6$  5  
 $1/8 = 0$  1

$741_{10} \rightarrow 1345_8$

$741/8 = 92.6$  5  
 $92/8 = 11.5$  4  
 $11/8 = 1.3$  3  
 $1/8 = 0$  1

$513_{10} \rightarrow 1001_8$

$513/8 = 64.1$  1  
 $64/8 = 8$  0  
 $8/8 = 1$  0  
 $1/8 = 0$  1

$133_{10} \rightarrow 265_8$

$133/8 = 16.6$  5  
 $16/8 = 2$  0  
 $2/8 = 0$  2

$325_{10} \rightarrow 545_8$

$325/8 = 40.6$  5  
 $40/8 = 5$  0  
 $5/8 = 0$  1

$217_{10} \rightarrow 331_8$

$217/8 = 27.1$  1  
 $27/8 = 3.3$  3  
 $3/8 = 0$  3

$613_{10} \rightarrow 1145_8$

$613/8 = 76.6$  5  
 $76/8 = 9.5$  4  
 $9/8 = 1.1$  1  
 $1/8 = 0$  1

$825_{10} \rightarrow 1471_8$

$825/8 = 103.1$  1  
 $103/8 = 12.8$  4  
 $12/8 = 1.5$  1  
 $1/8 = 0$  1

$801_{10} \rightarrow 1441_8$

$801/8 = 100.1$  1  
 $100/8 = 12.5$  4  
 $12/8 = 1.5$  1  
 $1/8 = 0$  1

$S_{10} \rightarrow S_8$	$733_{10} \rightarrow 1335_8$	$37_{10} \rightarrow 153_8$
$518 = 0$	$733/8 = 91.6$	$37/8 = 4.6$
$64/8 = 8$	$91/8 = 11.3$	$4/8 = 0$
$8/8 = 1$	$11/8 = 1.3$	
$1/8 = 0$	$1/8 = 0$	
$513_{10} \rightarrow 1005_8$	$17_{10} \rightarrow 21_8$	
$513/8 = 64.1$	$173_{10} \rightarrow 1621_8$	$17/8 = 2.1$
$64/8 = 8$	$173/8 = 21.6$	$1/8 = 0$
$8/8 = 1$	$21/8 = 2.6$	
$1/8 = 0$	$1/8 = 0$	
$941_{10} \rightarrow 1655_8$	$965_{10} \rightarrow 1705_8$	
$941/8 = 117.6$	$965/8 = 120.6$	
$117/8 = 14.6$	$120/8 = 15$	
$14/8 = 1.7$	$15/8 = 1.8$	
$1/8 = 0$	$1/8 = 0$	
$685_{10} \rightarrow 1255_8$	$349_{10} \rightarrow 535_8$	
$685/8 = 85.6$	$349/8 = 43.0$	
$85/8 = 10.6$	$43/8 = 5.3$	
$10/8 = 1.2$	$5/8 = 0$	
$1/8 = 0$	$1/8 = 0$	
$241_{10} \rightarrow 361_8$	$165_{10} \rightarrow 245_8$	$577_{10} \rightarrow 1121_8$
$241/8 = 30.1$	$165/8 = 20.6$	$577/8 = 72.1$
$30/8 = 3.7$	$20/8 = 2.5$	$72/8 = 9$
$3/8 = 0$	$2/8 = 0$	$9/8 = 1.1$
$1/8 = 0$	$1/8 = 0$	$1/8 = 0$
$17_{10} \rightarrow 21_8$	$177_{10} \rightarrow 261_8$	$37_{10} \rightarrow 43_8$
$17/8 = 2.1$	$177/8 = 22.1$	$37/8 = 4.6$
$2/8 = 0$	$22/8 = 2.7$	$4/8 = 0$
$1/8 = 0$	$2/8 = 0$	
$533_{10} \rightarrow 1025_8$		
$533/8 = 66.6$		
$66/8 = 8.2$		
$8/8 = 1$		
$1/8 = 0$		

$173_{10} \rightarrow 255_8$		$897_{10} \rightarrow 1601_8$		$533_{10} \rightarrow 1023_8$
$173/8 = 21.6$	5	$897/8 = 112.1$	1	$533/8 = 66.6$
$21/8 = 2.6$	5	$112/8 = 14$	0	$66/8 = 8.2$
$2/8 = 0$	2	$14/8 = 1.7$	6	$8/8 = 1$
		$1/8 = 0$	1	$1/8 = 0$

$109_{10} \rightarrow 155_8$		$277_{10} \rightarrow 423_8$		$729_{10} \rightarrow 1331_8$
$109/8 = 13.6$	5	$277/8 = 34.6$	5	$729/8 = 91.1$
$13/8 = 1.6$	5	$34/8 = 4.2$	2	$91/8 = 11.3$
$1/8 = 0$	1	$4/8 = 0$	4	$11/8 = 1.3$
				$1/8 = 0$

$893_{10} \rightarrow 1575_8$		$173_{10} \rightarrow 255_8$		$17_{10} \rightarrow 21_8$
$893/8 = 111.6$	5	$173/8 = 21.6$	5	$17/8 = 2.1$
$111/8 = 13.8$	7	$21/8 = 2.6$	5	$2/8 = 0$
$13/8 = 1.6$	5	$2/8 = 0$	2	
$1/8 = 0$	1			

$429_{10} \rightarrow 655_8$		$365_{10} \rightarrow 555_8$		$389_{10} \rightarrow 605_8$
$429/8 = 53.6$	5	$365/8 = 45.6$	5	$389/8 = 48.6$
$53/8 = 6.6$	6	$45/8 = 5.6$	5	$48/8 = 6$
$6/8 = 0$	0	$5/8 = 0$	5	$6/8 = 0$

$291_{10} \rightarrow 361_8$		$193_{10} \rightarrow 301_8$		$349_{10} \rightarrow 535_8$
$291/8 = 36.1$	1	$193/8 = 24.1$	1	$349/8 = 43.6$
$36/8 = 3.7$	6	$24/8 = 3$	0	$43/8 = 5.3$
$3/8 = 0$	3	$3/8 = 0$	3	$5/8 = 0$

$397_{10} \rightarrow 615_8$				
$397/8 = 49.6$	5			
$49/8 = 6.1$	1			
$6/8 = 0$	6			

$937_{10} \rightarrow 1654_8$

$937/8 = 117.1$	1
$117/8 = 14.6$	5
$14/8 = 1.7$	6
$1/8 = 0$	1

$757_{10} \rightarrow 1365_8$

$757/8 = 94.6$	5
$94/8 = 11.7$	6
$11/8 = 1.3$	3
$1/8 = 0$	1

$249_{10} \rightarrow 374_8$

$249/8 = 31.1$	1
$31/8 = 3.8$	7
$3/8 = 0$	3

$945_{10} \rightarrow 1664_8$

$945/8 = 118.1$	1
$118/8 = 14.7$	6
$14/8 = 1.7$	6
$1/8 = 0$	1

$633_{10} \rightarrow 1171_8$

$633/8 = 79.1$	1
$79/8 = 9.8$	7
$9/8 = 1.1$	1
$1/8 = 0$	1

$229_{10} \rightarrow 343_8$

$229/8 = 28.6$	5
$28/8 = 3.5$	4
$3/8 = 0$	3

$953_{10} \rightarrow 1671_8$

$953/8 = 119.1$	1
$119/8 = 14.8$	7
$14/8 = 1.7$	6
$1/8 = 0$	1

$389_{10} \rightarrow 605_8$

$389/8 = 48.6$	5
$48/8 = 6$	0
$6/8 = 0$	6

$477_{10} \rightarrow 735_8$

$477/8 = 59.6$	5
$59/8 = 7.3$	3
$7/8 = 0$	7

$753_{10} \rightarrow 1364_8$

$753/8 = 94.1$	1
$94/8 = 11.7$	6
$11/8 = 1.3$	3
$1/8 = 0$	1

$9_{10} \rightarrow 11_8$

$9/8 = 1.1$	1
$1/8 = 0$	1

$653_{10} \rightarrow 1215_8$

$653/8 = 81.6$	5
$81/8 = 10.1$	1
$10/8 = 1.2$	2
$1/8 = 0$	1

$529_{10} \rightarrow 1021_8$

$529/8 = 66.1$	1
$66/8 = 8.2$	2
$8/8 = 1$	0
$1/8 = 0$	1

$585_{10} \rightarrow 1111_8$

$585/8 = 73.1$	1
$73/8 = 9.1$	1
$9/8 = 1.1$	1
$1/8 = 0$	1

$957_{10} \rightarrow 1655_8$

$957/8 = 119.6$	1
$119/8 = 14.8$	7
$14/8 = 1.7$	6
$1/8 = 0$	1

$369_{10} \rightarrow 561_8$

$369/8 = 46.1$	1
$46/8 = 5.7$	6
$5/8 = 0$	5

$17_{10} \rightarrow 21_8$

$17/8 = 2.1$	1
$2/8 = 0$	2

$709_{10} \rightarrow 1305_8$ 

$709/8 = 88.6$	5
$88/8 = 11$	0
$11/8 = 1.3$	3
$1/8 = 0$	1

 $169_{10} \rightarrow 251_8$ 

$169/8 = 21.1$	1
$21/8 = 2.6$	5
$2/8 = 0$	2

 $725_{10} \rightarrow 1325_8$ 

$725/8 = 90.6$	5
$90/8 = 11.2$	2
$11/8 = 1.3$	3
$1/8 = 0$	1

 $145_{10} \rightarrow 221_8$ 

$145/8 = 18.1$	1
$18/8 = 2.2$	2
$2/8 = 0$	2

 $225_{10} \rightarrow 341_8$ 

$225/8 = 28.1$	1
$28/8 = 3.5$	4
$3/8 = 0$	3

 $9_{10} \rightarrow 11_8$ 

$9/8 = 1.1$	1
$1/8 = 0$	1

 $681_{10} \rightarrow 1291_8$ 

$681/8 = 85.1$	1
$85/8 = 10.6$	5
$10/8 = 1.2$	2
$1/8 = 0$	1

 $345_{10} \rightarrow 531_8$ 

$345/8 = 43.1$	1
$43/8 = 5.3$	3
$5/8 = 0$	5

 $241_{10} \rightarrow 361_8$ 

$241/8 = 30.1$	1
$30/8 = 3.7$	6
$3/8 = 0$	3

 $415_{10} \rightarrow 635_8$ 

$415/8 = 51.6$	5
$51/8 = 6.3$	3
$6/8 = 0$	6

 $69_{10} \rightarrow 105_8$ 

$69/8 = 8.6$	5
$8/8 = 1$	0
$1/8 = 0$	1

 $117_{10} \rightarrow 165_8$ 

$117/8 = 14.6$	5
$14/8 = 1.7$	6
$1/8 = 0$	1

 $653_{10} \rightarrow 1215_8$ 

$653/8 = 81.6$	5
$81/8 = 10.1$	1
$10/8 = 1.2$	2
$1/8 = 0$	1

 $857_{10} \rightarrow 1531_8$ 

$857/8 = 107.1$	1
$107/8 = 13.3$	3
$13/8 = 1.6$	5
$1/8 = 0$	1

 $677_{10} \rightarrow 1295_8$ 

$677/8 = 84.6$	5
$84/8 = 10.5$	4
$10/8 = 1.2$	2
$1/8 = 0$	1

 $469_{10} \rightarrow 725_8$ 

$469/8 = 58.6$	5
$58/8 = 7.2$	2
$7/8 = 0$	7

$869_{20} \rightarrow 1545_8$	$609_{20} \rightarrow 1121_8$	$277_{20} \rightarrow 425_8$
$869/8 = 108.6$ 5	$649/8 = 81.1$ 1	$277/8 = 34.6$ 5
$108/8 = 13.5$ 4	$81/8 = 10.1$ 1	$341/8 = 9.2$ 2
$131/8 = 1.6$ 5	$10/8 = 1.2$ 2	$9/8 = 0$ 4
$1/8 = 0$ 1	$1/8 = 0$ 1	

$462_{20} \rightarrow 715_8$	$373_{20} \rightarrow 565_8$	$322_{20} \rightarrow 5\beta 1_8$
$461/8 = 57.6$ 5	$373/8 = 46.6$ 5	$321/8 = 40.6$ 1
$571/8 = 7.1$ 1	$461/8 = 5.7$ 6	$401/8 = 5$ 0
$71/8 = 0$ 7	$51/8 = 0$ 5	$51/8 = 0$ 5

$342_{20} \rightarrow 525_8$	$709_{20} \rightarrow 1365_8$	$661_{20} \rightarrow 1225_8$
$341/8 = 42.6$ 5	$709/8 = 88.6$ 5	$661/8 = 82.6$ 5
$421/8 = 5.2$ 2	$88/8 = 11$ 0	$821/8 = 10.2$ 2
$51/8 = 0$ 5	$11/8 = 1.3$ 3	$101/8 = 1.2$ 2
	$1/8 = 0$ 1	$11/8 = 0$ 1

$409_{20} \rightarrow 631_8$	$621_{20} \rightarrow 1155_8$	$193_{20} \rightarrow 3\beta 1_8$
$409/8 = 51.1$ 1	$621/8 = 77.6$ 5	$193/8 = 24.1$ 1
$511/8 = 6.3$ 3	$771/8 = 9.6$ 5	$241/8 = 3$ 0
$61/8 = 0$ 6	$91/8 = 1.1$ 1	$31/8 = 0$ 3
	$1/8 = 0$ 1	

$502_{20} \rightarrow 765_8$	$257_{20} \rightarrow 4\beta 1_8$	$845_{20} \rightarrow 1515_8$
$501/8 = 62.6$ 5	$257/8 = 32.1$ 1	$845/8 = 105.6$ 5
$621/8 = 7.7$ 6	$321/8 = 4$ 0	$1051/8 = 13.1$ 1
$71/8 = 0$ 7	$41/8 = 0$ 4	$131/8 = 1.6$ 5
		$17/8 = 0$ 1

$157_{20} \rightarrow 211_8$	$81_{20} \rightarrow 121_8$
$137/8 = 17.1$ 1	$81/8 = 10.1$ 1
$171/8 = 2.1$ 1	$101/8 = 1.2$ 2
$21/8 = 0$ 2	$1/8 = 0$ 1

$49_{10} \rightarrow 61_8$	$721_{10} \rightarrow 1321_8$	$377_{10} \rightarrow 571_8$
$49/8 = 6.1$ 1 $61/8 = 0$ 6	$721/8 = 90.1$ 1 $90/8 = 11.2$ 2 $11/8 = 1.3$ 3 $1/8 = 0$ 1	$377/8 = 47.1$ 1 $47/8 = 5.8$ 2 $5/8 = 0$ 5
$493_{10} \rightarrow 755_8$	$929_{10} \rightarrow 1641_8$	$417_{10} \rightarrow 691_8$
$493/8 = 61.6$ 5 $61/8 = 7.6$ 5 $7/8 = 0$ 7	$929/8 = 116.1$ 1 $116/8 = 14.5$ 4 $14/8 = 1.7$ 6 $1/8 = 0$ 1	$417/8 = 52.1$ 1 $52/8 = 6.5$ 4 $6/8 = 0$ 6
$109_{10} \rightarrow 155_8$	$321_{10} \rightarrow 501_8$	$341_{10} \rightarrow 525_8$
$109/8 = 13.6$ 5 $13/8 = 1.6$ 5 $1/8 = 0$ 1	$321/8 = 40.1$ 1 $40/8 = 5$ 0 $5/8 = 0$ 5	$341/8 = 42.6$ 5 $42/8 = 5.25$ 2 $5/8 = 0$ 5
$437_{10} \rightarrow 665_8$	$233_{10} \rightarrow 351_8$	$937_{10} \rightarrow 1651_8$
$437/8 = 54.6$ 5 $54/8 = 6.7$ 6 $6/8 = 0$ 6	$233/8 = 29.1$ 1 $29/8 = 3.6$ 5 $3/8 = 0$ 3	$937/8 = 117.1$ 1 $117/8 = 14.6$ 5 $14/8 = 1.7$ 6 $1/8 = 0$ 1
$657_{10} \rightarrow 1221_8$	$57_{10} \rightarrow 71_8$	$89_{10} \rightarrow 131_8$
$657/8 = 82.1$ 1 $82/8 = 10.2$ 2 $10/8 = 1.2$ 2 $1/8 = 0$ 1	$57/8 = 7.1$ 1 $7/8 = 0$ 7	$89/8 = 11.1$ 1 $11/8 = 1.3$ 3 $1/8 = 0$ 1

$94S_{1/2} \rightarrow 1/2^+ 1/2^-$	$62_{1/2} \rightarrow \mp 5/2$	$52_{1/2} \rightarrow 1/2^+ 1/2^-$
$545/8 = 58.1$	$\mp 1/8 = \mp 1.6$	$521/8 = 55.1$
$58/8 = 6.5$	$\mp 1/8 = 0$	$551/8 = 8.1$
$61/8 = 1$	$\mp 1/8 = 0$	$81/8 = 1$
$1/8 = 0$	$\mp 1/8 = 0$	$11/8 = 0$
	$\mp 65_{1/2} \rightarrow 13/2^- 5/2$	$269_{1/2} \rightarrow 9/2^- 5/2$
$489_{1/2} \rightarrow \mp 5/2$	$765/8 = 95.6$	$2691/8 = 33.6$
$489/8 = 61.1$	$951/8 = 11.8$	$331/8 = 4.1$
$611/8 = 7.6$	$111/8 = 1.3$	$41/8 = 0$
$\mp 1/8 = 0$	$17/8 = 0$	$41/8 = 0$
	$83F_{1/2} \rightarrow 15/2^- 5/2$	$229_{1/2} \rightarrow 3/2^- 5/2$
$885_{1/2} \rightarrow 15/2^- 5/2$	$837/8 = 104.6$	$2291/8 = 28.6$
$885/8 = 100.5$	$1041/8 = 13$	$281/8 = 3.5$
$110/8 = 13.7$	$131/8 = 1.6$	$31/8 = 0$
$131/8 = 1.6$	$17/8 = 0$	$31/8 = 0$
$1/8 = 0$	$\mp 1/8 = 0$	$1/8 = 0$
	$\mp 137_{1/2} \rightarrow 21/1^- 3/2$	$\mp 225_{1/2} \rightarrow 13/2^- 5/2$
$813_{1/2} \rightarrow 14/2^- 5/2$	$137/8 = 17.1$	$\mp 225/8 = 90.6$
$813/8 = 101.6$	$171/8 = 2.1$	$901/8 = 11.2$
$1011/8 = 12.0$	$21/8 = 0$	$111/8 = 1.3$
$121/8 = 1.5$		$111/8 = 0$
$1/8 = 0$		
	$869_{1/2} \rightarrow 15/2^- 5/2$	$345_{1/2} \rightarrow 5/2$
$937_{1/2} \rightarrow 16/2^- 5/2$	$869/8 = 108.6$	$3451/8 = 43.1$
$937/8 = 117.1$	$1081/8 = 13.5$	$431/8 = 5.3$
$117/8 = 14.6$	$131/8 = 1.6$	$51/8 = 0$
$141/8 = 1.7$	$17/8 = 0$	
$1/8 = 0$		
	$\mp 425_{1/2} \rightarrow 6/2^- 1/2$	$581_{1/2} \rightarrow 11/2^- 5/2$
$853_{1/2} \rightarrow 15/2^- 5/2$	$425/8 = 53.1$	$581/8 = 72.0$
$853/8 = 106.6$	$531/8 = 6.6$	$721/8 = 9$
$1061/8 = 13.2$	$61/8 = 0$	$91/8 = 1.1$
$131/8 = 1.6$		$11/8 = 0$
$1/8 = 0$		

$225_{10} \rightarrow 791_8$ 

$$\begin{array}{l} 225/8 = 28.1 \\ 28/8 = 3.5 \\ 3/8 = 0 \end{array}$$

 $709_{10} \rightarrow 1305_8$ 

$$\begin{array}{l} 709/8 = 88.6 \\ 88/8 = 11 \\ 11/8 = 1.3 \\ 1/8 = 0 \end{array}$$

 $493_{10} \rightarrow 743_8$ 

$$\begin{array}{l} 493/8 = 60.3 \\ 60/8 = 7.5 \\ 7/8 = 0 \end{array}$$

 $293_{10} \rightarrow 445_8$ 

$$\begin{array}{l} 293/8 = 36.6 \\ 36/8 = 4.5 \\ 4/8 = 0 \end{array}$$

$$\begin{array}{l} 705_{10} \rightarrow 1301_8 \\ 705/8 = 88.1 \\ 88/8 = 11 \\ 11/8 = 1.3 \\ 1/8 = 0 \end{array}$$

 $109_{10} \rightarrow 155_8$ 

$$\begin{array}{l} 109/8 = 13.6 \\ 13/8 = 1.6 \\ 1/8 = 0 \end{array}$$

 $765_{10} \rightarrow 1375_8$ 

$$\begin{array}{l} 765/8 = 95.6 \\ 95/8 = 11.8 \\ 11/8 = 1.3 \\ 1/8 = 0 \end{array}$$

$$\begin{array}{l} 381_{10} \rightarrow 575_8 \\ 381/8 = 47.6 \\ 47/8 = 5.8 \\ 5/8 = 0 \end{array}$$

 $437_{10} \rightarrow 665_8$ 

$$\begin{array}{l} 437/8 = 54.6 \\ 54/8 = 6.7 \\ 6/8 = 0 \end{array}$$

 $97_{10} \rightarrow 141_8$ 

$$\begin{array}{l} 97/8 = 12.1 \\ 12/8 = 1.5 \\ 1/8 = 0 \end{array}$$

$$\begin{array}{l} 721_{10} \rightarrow 1321_8 \\ 721/8 = 90.1 \\ 90/8 = 11.2 \\ 11/8 = 1.3 \\ 1/8 = 0 \end{array}$$

 $657_{10} \rightarrow 1221_8$ 

$$\begin{array}{l} 657/8 = 82.1 \\ 82/8 = 10.2 \\ 10/8 = 1.2 \\ 1/8 = 0 \end{array}$$

 $489_{10} \rightarrow 751_8$ 

$$\begin{array}{l} 489/8 = 61.1 \\ 61/8 = 7.6 \\ 7/8 = 0 \end{array}$$

 $49_{10} \rightarrow 61_8$ 

$$\begin{array}{l} 49/8 = 6.1 \\ 6/8 = 0 \end{array}$$

 $721_{10} \rightarrow 1321_8$ 

$$\begin{array}{l} 721/8 = 90.1 \\ 90/8 = 11.2 \\ 11/8 = 1.3 \\ 1/8 = 0 \end{array}$$

$653_{10} \rightarrow 1227_8$

$663/8 = 82.8$	2
$821/8 = 102.8$	2
$101/8 = 12$	2
$11/8 = 0$	1

$889_{10} \rightarrow 1571_8$

$889/8 = 111.1$	1
$111/8 = 13.8$	2
$131/8 = 1.6$	5
$11/8 = 0$	1

$749_{10} \rightarrow 1355_8$

$749/8 = 93.6$	3
$93/8 = 11.6$	5
$11/8 = 1.3$	3
$11/8 = 0$	1

$369_{10} \rightarrow 561_8$

$369/8 = 46.1$	1
$46/8 = 5.7$	6
$51/8 = 0$	5

$865_{10} \rightarrow 1591_8$

$865/8 = 108.1$	1
$108/8 = 13.5$	4
$131/8 = 1.6$	5
$11/8 = 0$	1

$405_{10} \rightarrow 625_8$

$405/8 = 50.6$	5
$50/8 = 6.2$	2
$61/8 = 0$	6

$317_{10} \rightarrow 475_8$

$317/8 = 39.6$	5
$39/8 = 4.8$	7
$41/8 = 0$	4

$269_{10} \rightarrow 415_8$

$269/8 = 33.6$	5
$33/8 = 4.1$	1
$41/8 = 0$	4

$805_{10} \rightarrow 1445_8$

$805/8 = 100.6$	5
$100/8 = 12.5$	4
$121/8 = 15$	4
$11/8 = 0$	1

$225_{10} \rightarrow 391_8$

$225/8 = 28.1$	1
$28/8 = 3.5$	4
$31/8 = 0$	3

$621_{10} \rightarrow 1155_8$

$621/8 = 77.6$	5
$77/8 = 9.6$	5
$91/8 = 1.1$	1
$11/8 = 0$	1

$877_{10} \rightarrow 1655_8$

$877/8 = 109.6$	5
$109/8 = 13.6$	5
$131/8 = 1.6$	5
$11/8 = 0$	1

$185_{10} \rightarrow 231_8$

$185/8 = 23.1$	1
$23/8 = 2.8$	7
$21/8 = 0$	2

$109_{10} \rightarrow 1305_8$

$109/8 = 88.6$	5
$88/8 = 11$	0
$11/8 = 1.3$	3
$11/8 = 0$	1

$649_{10} \rightarrow 1211_8$

$649/8 = 81.1$	1
$81/8 = 10.1$	1
$101/8 = 1.2$	2
$11/8 = 0$	1

$591_{10} \rightarrow 1035_8$

$591/8 = 67.6$	5
$67/8 = 8.3$	3
$81/8 = 1$	0
$11/8 = 0$	1

$177_{10} \rightarrow 261_8$

$177/8 = 22.1$	1
$221/8 = 2.7$	6
$21/8 = 0$	2

$833_{10} \rightarrow 1501_8$

$833/8 = 104.1$	1
$104/8 = 13$	0
$131/8 = 1.6$	5
$11/8 = 0$	1

$93_{10} \rightarrow 135_8$

$93/8 = 11.6$  5  
 $11/8 = 1.3$  3  
 $1/8 = 0$  1

$969_{10} \rightarrow 1711_8$

$969/8 = 121.1$  1  
 $121/8 = 15.1$  1  
 $15/8 = 1.8$  4  
 $1/8 = 0$  1

$865_{10} \rightarrow 1541_8$

$865/8 = 108.1$  1  
 $108/8 = 13.5$  4  
 $13/8 = 1.6$  5  
 $1/8 = 0$  1

$685_{10} \rightarrow 1255_8$

$685/8 = 85.6$  5  
 $85/8 = 10.6$  5  
 $10/8 = 1.2$  2  
 $1/8 = 0$  1

$613_{10} \rightarrow 1145_8$

$613/8 = 76.6$  5  
 $76/8 = 9.5$  9  
 $9/8 = 1.1$  1  
 $1/8 = 0$  1

$341_{10} \rightarrow 525_8$

$341/8 = 42.6$  5  
 $42/8 = 5.2$  2  
 $5/8 = 0$  5

$213_{10} \rightarrow 325_8$

$213/8 = 26.6$  5  
 $26/8 = 3.2$  2  
 $3/8 = 0$  3

$97_{10} \rightarrow 141_8$

$97/8 = 12.1$  1  
 $12/8 = 1.5$  9  
 $1/8 = 0$  1

$945_{10} \rightarrow 1661_8$

$945/8 = 118.1$  1  
 $118/8 = 14.7$  6  
 $14/8 = 1.7$  6  
 $1/8 = 0$  1

$973_{10} \rightarrow 1715_8$

$973/8 = 121.6$  5  
 $121/8 = 15.1$  1  
 $15/8 = 1.8$  7  
 $1/8 = 0$  1

$201_{10} \rightarrow 311_8$

$201/8 = 25.1$  1  
 $25/8 = 3.1$  1  
 $3/8 = 0$  3

$717/8 = 89.6$  5  
 $89/8 = 11.1$  1  
 $11/8 = 1.3$  3  
 $1/8 = 0$  1

$885_{10} \rightarrow 1565_8$

$885/8 = 110.6$  5  
 $110/8 = 13.7$  6  
 $13/8 = 1.6$  5  
 $1/8 = 0$  1

$217_{10} \rightarrow 331_8$

$217/8 = 27.1$  1  
 $27/8 = 3.3$  3  
 $3/8 = 0$  3

$417_{10} \rightarrow 691_8$

$417/8 = 52.1$  1  
 $52/8 = 6.5$  4  
 $6/8 = 0$  6

$69_{10} \rightarrow 105_8$	$681_{10} \rightarrow 1261_8$	$693_{10} \rightarrow 1215_8$
$69/8 = 8.6$ 5	$681/8 = 85.1$ 1	$693/8 = 81.6$ 5
$8/8 = 1$ 0	$81/8 = 10.1$ 0	$81/8 = 10.1$ 1
$1/8 = 0$ 1	$10/8 = 1.2$ 2	$10/8 = 1.2$ 2
	$1/8 = 0$ 1	$1/8 = 0$ 1

$704_{10} \rightarrow 1371_8$	$525_{10} \rightarrow 1045_8$	$281_{10} \rightarrow 431_8$
$704/8 = 95.1$ 1	$525/8 = 65.6$ 5	$281/8 = 35.1$ 1
$95/8 = 11.8$ 7	$65/8 = 8.1$ 1	$35/8 = 4.3$ 3
$11/8 = 1.3$ 3	$8/8 = 1$ 0	$4/8 = 0$ 4
$1/8 = 0$ 1	$1/8 = 0$ 1	$1/8 = 0$ 1

$313_{10} \rightarrow 471_8$	$625_{10} \rightarrow 1161_8$	$701_{10} \rightarrow 1275_8$
$313/8 = 39.1$ 1	$625/8 = 78.1$ 1	$701/8 = 87.6$ 5
$39/8 = 4.8$ 7	$78/8 = 9.7$ 6	$87/8 = 10.8$ 7
$4/8 = 0$ 4	$9/8 = 1.1$ 1	$10/8 = 1.2$ 2
	$1/8 = 0$ 1	$1/8 = 0$ 1

$945_{10} \rightarrow 1661_8$	$721_{10} \rightarrow 1321_8$	$301_{10} \rightarrow 551_8$
$945/8 = 118.1$ 1	$721/8 = 90.1$ 1	$301/8 = 37.6$ 5
$118/8 = 14.7$ 6	$90/8 = 11.2$ 2	$37/8 = 4.6$ 4
$14/8 = 1.7$ 6	$11/8 = 1.3$ 3	$4/8 = 0$ 5
$1/8 = 0$ 1	$1/8 = 0$ 1	$1/8 = 0$ 1

$165_{10} \rightarrow 245_8$	$901_{10} \rightarrow 1605_8$	$293_{10} \rightarrow 445_8$
$165/8 = 20.6$ 5	$901/8 = 112.6$ 5	$293/8 = 36.6$ 5
$20/8 = 2.5$ 1	$112/8 = 14$ 0	$36/8 = 4.5$ 4
$2/8 = 0$ 2	$14/8 = 1.7$ 6	$4/8 = 0$ 4
	$1/8 = 0$ 1	$1/8 = 0$ 1

$505_{10} \rightarrow 771_8$	$825_{10} \rightarrow 1471_8$	$533_{10} \rightarrow 1025_8$
$505/8 = 63.1$ 1	$825/8 = 103.1$ 1	$533/8 = 66.6$ 5
$63/8 = 7.8$ 7	$103/8 = 12.8$ 7	$66/8 = 8.2$ 2
$7/8 = 0$ 7	$12/8 = 1.5$ 1	$8/8 = 1$ 0
	$1/8 = 0$ 1	$1/8 = 0$ 1
		$313_{10} \rightarrow 471_8$
		$313/8 = 39.1$ 1
		$39/8 = 4.8$ 7
		$4/8 = 0$ 4

$669_{10} \rightarrow 1235_8$ 

$$\begin{array}{l} 669/8 = 83.6 \\ 83/8 = 10.3 \\ 10/8 = 1.2 \\ 1/8 = 0 \end{array}$$

5  
3  
2  
1 $81_{10} \rightarrow 121_8$ 

$$\begin{array}{l} 81/8 = 10.1 \\ 10/8 = 1.2 \\ 1/8 = 0 \end{array}$$

 $577_{10} \rightarrow 1101_8$ 

$$\begin{array}{l} 577/8 = 72.1 \\ 72/8 = 9 \\ 9/8 = 1.1 \\ 1/8 = 0 \end{array}$$

1  
0  
1  
1 $273_{10} \rightarrow 445_8$ 

$$\begin{array}{l} 293/8 = 36.6 \\ 36/8 = 4.5 \\ 4/8 = 0 \end{array}$$

5  
4  
4 $161_{10} \rightarrow 241_8$ 

$$\begin{array}{l} 161/8 = 20.1 \\ 20/8 = 2.5 \\ 2/8 = 0 \end{array}$$

 $73_{10} \rightarrow 111_8$ 

$$\begin{array}{l} 73/8 = 9.1 \\ 9/8 = 1.1 \\ 1/8 = 0 \end{array}$$

1  
1  
1 $633_{10} \rightarrow 1171_8$ 

$$\begin{array}{l} 633/8 = 79.1 \\ 79/8 = 9.8 \\ 9/8 = 1.1 \\ 1/8 = 0 \end{array}$$

4  
7  
1  
1 $29_{10} \rightarrow 35_8$ 

$$\begin{array}{l} 29/8 = 3.6 \\ 3/8 = 0 \end{array}$$

 $481_{10} \rightarrow 791_8$ 

$$\begin{array}{l} 481/8 = 60.1 \\ 60/8 = 7.5 \\ 7/8 = 0 \end{array}$$

1

 $541_{10} \rightarrow 1035_8$ 

$$\begin{array}{l} 541/8 = 67.6 \\ 67/8 = 8.3 \\ 8/8 = 1 \\ 1/8 = 0 \end{array}$$

5  
3  
0  
1 $129_{10} \rightarrow 201_8$ 

$$\begin{array}{l} 129/8 = 16.1 \\ 16/8 = 2 \\ 2/8 = 0 \end{array}$$

 $645_{10} \rightarrow 1205_8$ 

$$\begin{array}{l} 645/8 = 80.6 \\ 80/8 = 10 \\ 10/8 = 1.2 \\ 1/8 = 0 \end{array}$$

1

 $973_{10} \rightarrow 1715_8$ 

$$\begin{array}{l} 973/8 = 121.6 \\ 121/8 = 15.1 \\ 15/8 = 1.8 \\ 1/8 = 0 \end{array}$$

5  
1  
7  
1 $541_{10} \rightarrow 1035_8$ 

$$\begin{array}{l} 541/8 = 67.6 \\ 67/8 = 8.3 \\ 8/8 = 1 \\ 1/8 = 0 \end{array}$$

 $365_{10} \rightarrow 555_8$ 

$$\begin{array}{l} 365/8 = 45.6 \\ 45/8 = 5.6 \\ 5/8 = 0 \end{array}$$

1

 $357_{10} \rightarrow 545_8$ 

$$\begin{array}{l} 357/8 = 44.6 \\ 44/8 = 5.5 \\ 5/8 = 0 \end{array}$$

5  
4  
5 $285_{10} \rightarrow 435_8$ 

$$\begin{array}{l} 285/8 = 35.6 \\ 35/8 = 4.3 \\ 4/8 = 0 \end{array}$$

 $781_{10} \rightarrow 1415_8$ 

$$\begin{array}{l} 781/8 = 97.6 \\ 97/8 = 12.1 \\ 12/8 = 1.5 \\ 1/8 = 0 \end{array}$$

1

$629_{10} \rightarrow 1165_8$	$49_{10} \rightarrow 61_8$	$615_{10} \rightarrow 1145_8$
$629/8 = 78 + 5$	$49/8 = 6 + 1$	$615/8 = 76 + 5$
$78/8 = 9 + 7$	$6/8 = 0$	$76/8 = 9 + 5$
$9/8 = 1 + 1$		$9/8 = 1 + 1$
$1/8 = 0$		$1/8 = 0$

$453_{10} \rightarrow 705_8$	$693_{10} \rightarrow 1265_8$	$589_{10} \rightarrow 1115_8$
$453/8 = 56 + 5$	$693/8 = 86 + 5$	$589/8 = 73 + 6$
$56/8 = 7 + 0$	$86/8 = 10 + 7$	$73/8 = 9 + 1$
$7/8 = 0$	$10/8 = 1 + 2$	$9/8 = 1 + 1$
	$1/8 = 0$	$1/8 = 0$

$729_{10} \rightarrow 1331_8$	$245_{10} \rightarrow 365_8$	$569_{10} \rightarrow 1071_8$
$729/8 = 91 + 1$	$245/8 = 30 + 5$	$569/8 = 71 + 1$
$91/8 = 11 + 3$	$30/8 = 3 + 7$	$71/8 = 8 + 3$
$11/8 = 1 + 3$	$3/8 = 0$	$8/8 = 1$
$1/8 = 0$		$1/8 = 0$

$109_{10} \rightarrow 155_8$	$937_{10} \rightarrow 1651_8$	$565_{10} \rightarrow 1065_8$
$109/8 = 13 + 5$	$937/8 = 117 + 1$	$565/8 = 70 + 5$
$13/8 = 1 + 6$	$117/8 = 14 + 6$	$70/8 = 8 + 6$
$1/8 = 0$	$14/8 = 1 + 7$	$8/8 = 1$
	$1/8 = 0$	$1/8 = 0$

$249_{10} \rightarrow 371_8$	$653_{10} \rightarrow 1215_8$	$485_{10} \rightarrow 745_8$
$249/8 = 31 + 1$	$653/8 = 81 + 6$	$485/8 = 60 + 5$
$31/8 = 3 + 8$	$81/8 = 10 + 1$	$60/8 = 7 + 3$
$3/8 = 0$	$10/8 = 1 + 2$	$7/8 = 0$
	$1/8 = 0$	

$605_{10} \rightarrow 1135_8$	$185_{10} \rightarrow 271_8$	$241_{10} \rightarrow 361_8$
$605/8 = 75 + 5$	$185/8 = 23 + 1$	$241/8 = 30 + 1$
$75/8 = 9 + 3$	$23/8 = 2 + 8$	$30/8 = 3 + 7$
$9/8 = 1 + 1$	$2/8 = 0$	$7/8 = 0$
$1/8 = 0$		

$55_{40} \rightarrow 425_8$	$225_{40} \rightarrow 341_8$	$605_{40} \rightarrow 4234_8$
$85/8 = 10.6$	$225/8 = 28.1$	$665/8 = 83.1$
$10/8 = 1.2$	$28/8 = 3.5$	$85/8 = 10.3$
$1/8 = 0$	$3/8 = 0$	$10/8 = 1.2$
		$1/8 = 0$
$61_{40} \rightarrow 75_8$	$361_{40} \rightarrow 551_8$	$485_{40} \rightarrow 745_8$
$61/8 = 7.6$	$361/8 = 45.1$	$485/8 = 60.6$
$7/8 = 0$	$55/8 = 6.8$	$60/8 = 7.5$
	$6/8 = 0$	$7/8 = 0$
$905_{40} \rightarrow 1611_8$	$109_{40} \rightarrow 135_8$	$457_{40} \rightarrow 711_8$
$905/8 = 113.1$	$109/8 = 13.6$	$457/8 = 56.1$
$113/8 = 14.1$	$13/8 = 1.6$	$59/8 = 7.1$
$14/8 = 1.7$	$1/8 = 0$	$7/8 = 0$
$1/8 = 0$		
$533_{40} \rightarrow 1025_8$	$869_{40} \rightarrow 1515_8$	$737_{40} \rightarrow 1391_8$
$533/8 = 66.6$	$869/8 = 108.6$	$737/8 = 92.1$
$66/8 = 8.2$	$108/8 = 13.5$	$92/8 = 11.5$
$8/8 = 1$	$13/8 = 1.6$	$11/8 = 1.3$
$1/8 = 0$	$1/8 = 0$	$1/8 = 0$
$481_{40} \rightarrow 741_8$	$277_{40} \rightarrow 425_8$	$153_{40} \rightarrow 231_8$
$481/8 = 60.1$	$277/8 = 34.6$	$153/8 = 19.1$
$60/8 = 7.5$	$34/8 = 4.2$	$19/8 = 2.3$
$7/8 = 0$	$1/8 = 0$	$2/8 = 0$
$605_{40} \rightarrow 1135_8$	$853_{40} \rightarrow 1525_8$	$805_{40} \rightarrow 1445_8$
$605/8 = 75.6$	$853/8 = 106.6$	$805/8 = 100.6$
$73/8 = 9.1$	$106/8 = 13.2$	$100/8 = 12.5$
$9/8 = 1.1$	$13/8 = 1.6$	$12/8 = 1.5$
$1/8 = 0$	$1/8 = 0$	$1/8 = 0$

$17_{10} \rightarrow 24_8$	$485_{10} \rightarrow 745_8$	$697_{10} \rightarrow 1271_8$
$17/8 = 2.1$	$485/8 = 60.6$	$697/8 = 87.1$
$21/8 = 0$	$60/8 = 7.5$	$87/8 = 10.8$
$1/8 = 0$	$7/8 = 0$	$10/8 = 1.2$
		$1/8 = 0$
$965_{10} \rightarrow 1705_8$	$337_{10} \rightarrow 521_8$	$365_{10} \rightarrow 555_8$
$965/8 = 120.6$	$337/8 = 42.1$	$365/8 = 45.6$
$120/8 = 15$	$42/8 = 5.2$	$45/8 = 5.6$
$15/8 = 1.8$	$5/8 = 0$	$5/8 = 0$
$1/8 = 0$		
$349_{10} \rightarrow 535_8$	$977_{10} \rightarrow 1721_8$	$829_{10} \rightarrow 1475_8$
$349/8 = 43.6$	$977/8 = 122.1$	$829/8 = 103.6$
$43/8 = 5.3$	$122/8 = 15.2$	$103/8 = 12.8$
$5/8 = 0$	$15/8 = 1.8$	$12/8 = 1.5$
	$1/8 = 0$	$1/8 = 0$
$577_{10} \rightarrow 1101_8$	$133_{10} \rightarrow 205_8$	$229_{10} \rightarrow 345_8$
$577/8 = 72.1$	$133/8 = 16.6$	$229/8 = 28.6$
$72/8 = 9$	$16/8 = 2$	$28/8 = 3.5$
$9/8 = 1.1$	$2/8 = 0$	$3/8 = 0$
$1/8 = 0$		
$537_{10} \rightarrow 1031_8$	$813_{10} \rightarrow 1455_8$	$949_{10} \rightarrow 1665_8$
$537/8 = 67.1$	$813/8 = 101.6$	$949/8 = 118.6$
$67/8 = 8.3$	$101/8 = 12.6$	$118/8 = 14.7$
$8/8 = 1$	$12/8 = 1.5$	$14/8 = 1.7$
$1/8 = 0$	$1/8 = 0$	$1/8 = 0$
$81_{10} \rightarrow 121_8$		$793_{10} \rightarrow 1431_8$
$81/8 = 10.1$		$793/8 = 99.1$
$10/8 = 1.2$		$99/8 = 12.3$
$1/8 = 0$		$12/8 = 1.5$
		$1/8 = 0$

$291_{10} \rightarrow 361_8$  $291/8 = 36.1 \quad 1$  $361/8 = 4.5 \quad 6$  $3/8 = 0 \quad 3$  $777_{10} \rightarrow 1411_8$  $777/8 = 97.1 \quad 1$  $971/8 = 12.1 \quad 1$  $121/8 = 15 \quad 4$  $15/8 = 0 \quad 1$  $261_{10} \rightarrow 405_8$  $261/8 = 32.6 \quad 5$  $321/8 = 4 \quad 0$  $418 = 0 \quad 4$  $229_{10} \rightarrow 174_8$  $229/8 = 15.5 \quad 4$  $1518 = 1.8 \quad 7$  $118 = 0 \quad 1$  $669_{10} \rightarrow 1235_8$  $669/8 = 83.6 \quad 5$  $831/8 = 10.3 \quad 3$  $1018 = 1.2 \quad 2$  $118 = 0 \quad 1$  $461_{10} \rightarrow 715_8$  $461/8 = 57.6 \quad 5$  $571/8 = 7.1 \quad 1$  $718 = 0 \quad 7$  $865_{10} \rightarrow 1541_8$  $865/8 = 108.1 \quad 1$  $10818 = 13.5 \quad 4$  $1318 = 1.6 \quad 5$  $118 = 0 \quad 1$  $541_{10} \rightarrow 1035_8$  $541/8 = 67.6 \quad 5$  $671/8 = 8.3 \quad 3$  $818 = 1 \quad 0$  $118 = 0 \quad 1$  $645_{10} \rightarrow 1205_8$  $645/8 = 80.6 \quad 5$  $8018 = 10 \quad 0$  $1018 = 1.2 \quad 2$  $118 = 0 \quad 1$  $745_{10} \rightarrow 1351_8$  $745/8 = 93.1 \quad 1$  $9318 = 11.6 \quad 5$  $1118 = 1.3 \quad 3$  $118 = 0 \quad 1$  $257_{10} \rightarrow 401_8$  $257/8 = 32.1 \quad 1$  $321/8 = 4 \quad 0$  $418 = 0 \quad 1$  $629_{10} \rightarrow 1165_8$  $629/8 = 78.6 \quad 5$  $781/8 = 9.7 \quad 6$  $918 = 1.1 \quad 1$  $118 = 0 \quad 1$  $525_{10} \rightarrow 1015_8$  $525/8 = 65.6 \quad 5$  $6518 = 8.1 \quad 1$  $818 = 1 \quad 0$  $118 = 0 \quad 1$  $445_{10} \rightarrow 675_8$  $445/8 = 55.6 \quad 5$  $551/8 = 6.8 \quad 7$  $618 = 0 \quad 6$  $829/8 = 103.6 \quad 5$  $10318 = 12.8 \quad 7$  $1218 = 1.5 \quad 4$  $118 = 0 \quad 1$  $877_{10} \rightarrow 1555_8$  $877/8 = 109.6 \quad 5$  $10918 = 13.6 \quad 5$  $1318 = 1.0 \quad 5$  $118 = 0 \quad 1$  $945_{10} \rightarrow 1661_8$  $945/8 = 118.1 \quad 1$  $1181/8 = 14.7 \quad 6$  $141/8 = 1.7 \quad 6$  $118 = 0 \quad 1$  $749_{10} \rightarrow 1355_8$  $749/8 = 93.6 \quad 5$  $9318 = 11.6 \quad 5$  $1118 = 1.3 \quad 3$  $118 = 0 \quad 1$