



Nombre de la práctica	MULTIPLICACION DE BINARIOS			No.	5
Asignatura:	MATEMATICAS DISCRETAS	Carrera:	ING. EN SISTEMAS COMPUTACIONALES	SALON	3101

I. Competencia(s) específica(s):

Comprender y conocer a detalle el tema de la multiplicación de binarios, resolver de manera rápida y sencilla los ejercicios, conocer en que ámbitos se emplea la multiplicación de binarios y las diferentes funciones que pueden tener.

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 resolver la multiplicación de binarios y es muy interesante comprender el sistema numérico binario y su aplicación en la informática, es curioso como a partir de una serie de números binarios se pueden leer o componer muchos códigos que crean una tarea específica como lo es una aplicación en donde podemos mandar un mensaje, visualizar una imagen e incluso enviar un emoji.

PROCEDIMIENTO:

Multiplication de binaires

$$\begin{array}{r}
 6865 * 53 \\
 \hline
 110101111001001 \\
 \times \quad 1 \\
 \hline
 110101111001001 \\
 + 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 110101111001001 \\
 \hline
 1011001000100101
 \end{array}$$

5587 * 44

$$\begin{array}{r}
 101101001000000 \\
 \times \quad 1 \\
 \hline
 101101001000000 \\
 + 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 101101001000000 \\
 \hline
 101101001000000
 \end{array}$$

8925 * 29

$$\begin{array}{r}
 100000000000000 \\
 \times \quad 1 \\
 \hline
 100000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 100000000000000 \\
 100000000000000 \\
 100000000000000 \\
 \hline
 111110011000011001
 \end{array}$$

2137 * 97

$$\begin{array}{r}
 100000000000000 \\
 \times \quad 1 \\
 \hline
 100000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 100000000000000 \\
 100000000000000 \\
 100000000000000 \\
 \hline
 100000000000000
 \end{array}$$

1031 * 65

775 * 25

$$\begin{array}{r}
 100000000000000 \\
 \times \quad 1 \\
 \hline
 100000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 100000000000000 \\
 100000000000000 \\
 100000000000000 \\
 \hline
 11000101111001
 \end{array}$$

$$\begin{array}{r}
 100000000000000 \\
 \times \quad 1 \\
 \hline
 100000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 100000000000000 \\
 \hline
 100000000000000
 \end{array}$$

4233 * 97

$$\begin{array}{r}
 100000000000000 \\
 \times \quad 1 \\
 \hline
 100000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 100000000000000 \\
 100000000000000 \\
 \hline
 1100010001111001
 \end{array}$$

8761 * 9

$$\begin{array}{r}
 100000000000000 \\
 \times \quad 1 \\
 \hline
 100000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 100000000000000 \\
 \hline
 100000000000000
 \end{array}$$

5221 * 57

$$\begin{array}{r}
 1212020211001201 \\
 \times \quad 2222001 \\
 \hline
 1010022001001 \\
 + \quad 0000000000000 \\
 1010021001001 \\
 2010011001001 \\
 0010011001001 \\
 \hline
 100128128000111101
 \end{array}$$

3521 * 93

$$\begin{array}{r}
 12120222020001 \\
 \times \quad 221111101 \\
 \hline
 11101110000001 \\
 00000000000000 \\
 + \quad 11101110000001 \\
 11101110000001 \\
 11101110000001 \\
 00000000000000 \\
 11101110000001 \\
 \hline
 10100001001110111101
 \end{array}$$

5565 * 21

$$\begin{array}{r}
 1212022202111101 \\
 \times \quad 26161 \\
 \hline
 1010111011111101 \\
 + \quad 00000000000000 \\
 1010111011111101 \\
 00000000000000 \\
 1010111011111101 \\
 \hline
 111000120001000001
 \end{array}$$

1245 * 65

$$\begin{array}{r}
 1001110221101 \\
 \times \quad 24000001 \\
 \hline
 0001110221101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 00000000000000 \\
 00000000000000 \\
 1001110221101 \\
 \hline
 100111100000001101
 \end{array}$$

FG77 * 69

$$\begin{array}{r}
 1212022202111101 \\
 \times \quad 1222001 \\
 \hline
 1110111011111101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 00000000000000 \\
 00000000000000 \\
 1110111011111101 \\
 \hline
 111100011101111101
 \end{array}$$

2281 * 45

$$\begin{array}{r}
 12000111100001 \\
 \times \quad 281361 \\
 \hline
 11000111100001 \\
 00000000000000 \\
 + \quad 10000111100001 \\
 10000111100001 \\
 00000000000000 \\
 10000111100001 \\
 \hline
 110011100000001101
 \end{array}$$

F389 * 45

$$\begin{array}{r}
 1212022202111101 \\
 \times \quad 2013181 \\
 \hline
 1110111011111101 \\
 00000000000000 \\
 + \quad 1111000120111101 \\
 1110001101111101 \\
 00000000000000 \\
 1110001101111101 \\
 \hline
 1010000100111101
 \end{array}$$

3649 * 21

$$\begin{array}{r}
 1212022202111101 \\
 \times \quad 22363 \\
 \hline
 121200010000001 \\
 00000000000000 \\
 + \quad 121200010000001 \\
 00000000000000 \\
 121200010000001 \\
 \hline
 10020100100010001
 \end{array}$$

6428 * 5

$$\begin{array}{r}
 2 2000000000000000000 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 \hline
 2 2000000000000000000
 \end{array}$$

145 * 65

$$\begin{array}{r}
 2000000000000000000 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 \hline
 2000000000000000000
 \end{array}$$

5005 * 33

$$\begin{array}{r}
 2 0000000000000000000 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 0000000000000000000 \\
 0000000000000000000 \\
 \hline
 1000000000000000000
 \end{array}$$

1541 * 45

$$\begin{array}{r}
 2 2000000000000000000 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 0000000000000000000 \\
 0000000000000000000 \\
 \hline
 1000000000000000000
 \end{array}$$

5181 * 33

$$\begin{array}{r}
 2 0000000000000000000 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 0000000000000000000 \\
 0000000000000000000 \\
 \hline
 1000000000000000000
 \end{array}$$

8025 * 25

$$\begin{array}{r}
 2 2222222222222222222 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 0000000000000000000 \\
 \hline
 1000000000000000000
 \end{array}$$

223 * 33

$$\begin{array}{r}
 2 2222222222222222222 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 0000000000000000000 \\
 \hline
 1000000000000000000
 \end{array}$$

4321 * 53

$$\begin{array}{r}
 2 0000000000000000000 \\
 \times 1000000000000000000 \\
 + 0000000000000000000 \\
 0000000000000000000 \\
 0000000000000000000 \\
 \hline
 1000000000000000000
 \end{array}$$

$$5425 * 9$$

$$\begin{array}{r} 1010100100001 \\ \times 1000000000000 \\ \hline 1010100100001 \\ + 0000000000000 \\ 0000000000000 \\ 1010100100001 \\ \hline 1010100100001 \end{array}$$

$$3573 * 61$$

$$\begin{array}{r} 110111111111111 \\ \times 111111111111111 \\ \hline 110111111111111 \\ + 110111111111111 \\ 110111111111111 \\ 110111111111111 \\ \hline 110111111111111 \end{array}$$

$$4025 * 9$$

$$\begin{array}{r} 111111111111111 \\ \times 100000000000000 \\ \hline 111111111111111 \\ + 000000000000000 \\ 000000000000000 \\ 111111111111111 \\ \hline 100000000000000 \end{array}$$

$$8143 * 63$$

$$\begin{array}{r} 1000100010001 \\ \times 1000100010001 \\ \hline 1000100010001 \\ 0000000000000 \\ 0000000000000 \\ 0000000000000 \\ 0000000000000 \\ 0000000000000 \\ 1000100010001 \\ \hline 1000100010001 \end{array}$$

$$3553 * 23$$

$$\begin{array}{r} 111111111111111 \\ \times 111111111111111 \\ \hline 111111111111111 \\ 000000000000000 \\ + 111111111111111 \\ 111111111111111 \\ 111111111111111 \\ 000000000000000 \\ 111111111111111 \\ \hline 111111111111111 \end{array}$$

$$6837 * 37$$

$$\begin{array}{r} 1101010101010101 \\ \times 1101010101010101 \\ \hline 1101010101010101 \\ 0000000000000000 \\ + 1101010101010101 \\ 1101010101010101 \\ 1101010101010101 \\ 0000000000000000 \\ 1101010101010101 \\ \hline 1111111111111111 \end{array}$$

$$8313 * 77$$

$$\begin{array}{r} 111111111111111 \\ \times 111111111111111 \\ \hline 111111111111111 \\ 000000000000000 \\ + 111111111111111 \\ 111111111111111 \\ 111111111111111 \\ 000000000000000 \\ 111111111111111 \\ \hline 111111111111111 \end{array}$$

$$7353 * 61$$

$$\begin{array}{r} 1101010101010101 \\ \times 111111111111111 \\ \hline 1101010101010101 \\ 0000000000000000 \\ + 1101010101010101 \\ 1101010101010101 \\ 1101010101010101 \\ 0000000000000000 \\ 1101010101010101 \\ \hline 1101010101010101 \end{array}$$

S 333 A 57

$$\begin{array}{r}
 1012201200000 \\
 + 0000000000000 \\
 \hline
 1012102300000
 \end{array}$$

222 x 53

695 * 61

29 93 x 24

	2	4	2	2	8	2	8	2	8	2	8	
X	121212											
	1	0	1	2	0	1	0	0	0	1	0	
+	0	0	0	0	0	0	0	0	0	0	0	
	1	0	1	1	0	1	0	0	1	0	1	
	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	1	0	0	0	1	0	1	0	
	1212121212121212											

13745

$$\begin{array}{r}
 228888888 \\
 + 228888888 \\
 \hline
 457777776
 \end{array}$$

2353 * 13

$$\begin{array}{r}
 1201120112011201 \\
 + 1001001001001001 \\
 \hline
 22120221220220221
 \end{array}$$

2 1 3 3 6 9 5

24-69440

$$\begin{array}{r}
 & 2 0 2 0 2 0 2 0 2 0 2 0 \\
 & 2 2 2 2 2 2 2 2 2 2 2 2 2 \\
 \hline
 & 2 0 0 0 0 2 2 2 2 0 0 1 \\
 & 0 0 0 0 0 0 0 0 0 0 0 0 \\
 + & 0 0 0 0 0 0 0 0 0 0 0 0 \\
 & 0 0 0 0 0 0 0 0 0 0 0 0 \\
 & 1 0 0 0 0 1 1 1 0 0 1 \\
 2 0 0 0 0 2 2 2 2 0 0 1 \\
 \hline
 & 2 1 0 8 3 0 1 1 3 0 8 1 0 1 0 8 1
 \end{array}$$

7069 * 81

$$\begin{array}{r}
 1 101111111111111 \\
 + 101000000000000 \\
 \hline
 110111111111111 \\
 000000000000000 \\
 + 000000000000000 \\
 110111111111111 \\
 000000000000000 \\
 \hline
 110111111111111 \\
 \hline
 100010011101010101010101
 \end{array}$$

6291 * 25

$$\begin{array}{r}
 1 101111111111111 \\
 + 101000000000000 \\
 \hline
 110111111111111 \\
 000000000000000 \\
 + 000000000000000 \\
 110111111111111 \\
 \hline
 101011001100110011001100
 \end{array}$$

7926 * 85

$$\begin{array}{r}
 1 111111111111111 \\
 + 111010101010101 \\
 \hline
 111111111111111 \\
 ,000000000000000 \\
 + 111111111111111 \\
 000000000000000 \\
 111111111111111 \\
 000000000000000 \\
 \hline
 111111111111111 \\
 \hline
 101011001100110011001100
 \end{array}$$

4897 * 65

$$\begin{array}{r}
 1 101111111111111 \\
 + 101000000000000 \\
 \hline
 110111111111111 \\
 000000000000000 \\
 + 000000000000000 \\
 110111111111111 \\
 \hline
 101011001100110011001100
 \end{array}$$

2989 * 29

$$\begin{array}{r}
 1 101111111111111 \\
 + 101000000000000 \\
 \hline
 110111111111111 \\
 000000000000000 \\
 + 101111111111111 \\
 1012201011101 \\
 \hline
 101111111111111 \\
 \hline
 101011001100110011001100
 \end{array}$$

2926 * 75

$$\begin{array}{r}
 1 101111111111111 \\
 + 101000000000000 \\
 \hline
 110111111111111 \\
 1012201011101 \\
 \hline
 101111111111111 \\
 1012201011101 \\
 \hline
 1012201011101
 \end{array}$$

8909 * 81

$$\begin{array}{r}
 1 101111111111111 \\
 + 101000000000000 \\
 \hline
 110111111111111 \\
 000000000000000 \\
 + 000000000000000 \\
 110111111111111 \\
 000000000000000 \\
 \hline
 110111111111111 \\
 \hline
 101011001100110011001100
 \end{array}$$

3291 * 29

$$\begin{array}{r}
 1 101111111111111 \\
 + 101000000000000 \\
 \hline
 110111111111111 \\
 101011001100110011001100 \\
 \hline
 101011001100110011001100
 \end{array}$$

7293 * 21

265 * 77

$$\begin{array}{r}
 11100001111101 \\
 * \quad 100101 \\
 \hline
 11100001111101 \\
 + 00000000000000 \\
 11100001111101 \\
 00000000000000 \\
 \hline
 1000100010000001
 \end{array}$$

$$\begin{array}{r}
 10000010001 \\
 * \quad 10000010001 \\
 \hline
 10000010001 \\
 000000000000 \\
 000000000000 \\
 10000010001 \\
 \hline
 10000010001
 \end{array}$$

6617 * 25

1953 * 44

$$\begin{array}{r}
 11001111011001 \\
 * \quad 110011 \\
 \hline
 11001111011001 \\
 00000000000000 \\
 + 00000000000000 \\
 11001111011001 \\
 11001111011001 \\
 \hline
 1110000110001101
 \end{array}$$

$$\begin{array}{r}
 111110100001 \\
 * \quad 110001 \\
 \hline
 111110100001 \\
 00000000000000 \\
 + 00000000000000 \\
 111110100001 \\
 111110100001 \\
 \hline
 1011101011010001
 \end{array}$$

1529 * 49

2721 * 85

$$\begin{array}{r}
 100111110001 \\
 * \quad 110001 \\
 \hline
 100111110001 \\
 000000000000 \\
 + 000000000000 \\
 100111110001 \\
 100111110001 \\
 \hline
 1000100100010001
 \end{array}$$

$$\begin{array}{r}
 10101010100001 \\
 * \quad 10101010100001 \\
 \hline
 1010101010100001 \\
 1000000000000000 \\
 + 1010101010100001 \\
 1010101010100001 \\
 0000000000000000 \\
 1010101010100001 \\
 \hline
 1110000011011101
 \end{array}$$

8353 * 77

5175 * 41

$$\begin{array}{r}
 100000010000001 \\
 * \quad 10001101 \\
 \hline
 100000010000001 \\
 + 100000010000001 \\
 100000010000001 \\
 0000000000000000 \\
 0000000000000000 \\
 100000010000001 \\
 \hline
 100011010000001
 \end{array}$$

$$\begin{array}{r}
 101000001101001 \\
 * \quad 101000001101001 \\
 \hline
 101000001101001 \\
 0000000000000000 \\
 + 101000001101001 \\
 101000001101001 \\
 0000000000000000 \\
 101000001101001 \\
 \hline
 11001101100001101
 \end{array}$$

3437 * 85

$$\begin{array}{r}
 110101011010101 \\
 \times \quad 10101010101 \\
 \hline
 110101011010101 \\
 000000000000000 \\
 + \quad 110101011010101 \\
 000000000000000 \\
 110101011010101 \\
 000000000000000 \\
 110101011010101 \\
 \hline
 10001110101000110001
 \end{array}$$

3413 * 94

$$\begin{array}{r}
 110101011010101 \\
 \times \quad 10101010101 \\
 \hline
 110101011010101 \\
 000000000000000 \\
 + \quad 110101011010101 \\
 110101011010101 \\
 110101011010101 \\
 \hline
 1011110101111101101
 \end{array}$$

4105 * 5

$$\begin{array}{r}
 100000000010001 \\
 \times \quad 101 \\
 \hline
 + \quad 100000000010001 \\
 100000000010001 \\
 \hline
 101000000010001
 \end{array}$$

5597 * 21

$$\begin{array}{r}
 1010110111011101 \\
 \times \quad 10101 \\
 \hline
 1010110111011101 \\
 000000000000000 \\
 + \quad 1010110111011101 \\
 000000000000000 \\
 1010110111011101 \\
 \hline
 1110010110010001
 \end{array}$$

5753 * 15

$$\begin{array}{r}
 10110011110001 \\
 \times \quad 1101 \\
 \hline
 + \quad 10110011110001 \\
 10110011110001 \\
 10110011110001 \\
 \hline
 1001010010001
 \end{array}$$

7945 * 47

$$\begin{array}{r}
 1111101000010001 \\
 \times \quad 1001101 \\
 \hline
 1111101000010001 \\
 000000000000000 \\
 + \quad 11111000010001 \\
 100000000000000 \\
 000000000000000 \\
 111110000010001 \\
 \hline
 1001010101010101
 \end{array}$$

8865 * 49

$$\begin{array}{r}
 100011010100001 \\
 \times \quad 110001 \\
 \hline
 + \quad 100011010100001 \\
 000000000000000 \\
 100011010100001 \\
 100011010100001 \\
 \hline
 11010100100001
 \end{array}$$

4361 * 9

$$\begin{array}{r}
 100011010100001 \\
 \times \quad 1001 \\
 \hline
 100011010100001 \\
 000000000000000 \\
 + \quad 100011010100001 \\
 100011010100001 \\
 \hline
 10010100100001
 \end{array}$$

5265 * 89

2157 * 9

$$\begin{array}{r}
 100001101101 \\
 + 000000000000 \\
 000000000000 \\
 100001101101 \\
 \hline
 100001101101
 \end{array}$$

1465 * 89

2605 * 93

$$\begin{array}{r}
 101000101101 \\
 * \quad \quad \quad 1011101 \\
 \hline
 101000101101 \\
 000000000000 \\
 + \quad 101000101101 \\
 101000101101 \\
 101000101101 \\
 0000000000 \\
 101000101101 \\
 \hline
 111011010001001
 \end{array}$$

2985 * 53

193 * 73

8781 * 41

1 2 3 4 5 6 7 8 9 10 11 12 13 14
+ 1 2 3 4 5 6 7 8 9 10 11 12 13 14

1449 * 33

3769 * 89

7489 * 37

$$\begin{array}{r}
 1110101110001 \\
 * \quad 10011001 \\
 \hline
 1110101110001 \\
 0000000000000 \\
 + 1110101110001 \\
 1110101110001 \\
 0000000000000 \\
 1110101110001 \\
 \hline
 10100011110010001
 \end{array}$$

$$\begin{array}{r}
 1110101110001 \\
 * \quad 100101 \\
 \hline
 1110101110001 \\
 0000000000000 \\
 + 1110101110001 \\
 0000000000000 \\
 1110101110001 \\
 \hline
 1000011100110001
 \end{array}$$

1049 * 25

$$\begin{array}{r}
 1000000110001 \\
 * \quad 11001 \\
 \hline
 1000000110001 \\
 0000000000000 \\
 + 1000000110001 \\
 1000000110001 \\
 \hline
 110001100110001
 \end{array}$$

4313 * 37

$$\begin{array}{r}
 1001011011001 \\
 * \quad 100101 \\
 \hline
 1001011011001 \\
 0000000000000 \\
 + 1001011011001 \\
 0000000000000 \\
 1001011011001 \\
 \hline
 1010110011001
 \end{array}$$

5137 * 61

$$\begin{array}{r}
 101010100010001 \\
 * \quad 1111001 \\
 \hline
 101010100010001 \\
 0000000000000 \\
 + 10100000010001 \\
 10100000010001 \\
 10100000010001 \\
 10100000010001 \\
 \hline
 10011001000011001
 \end{array}$$

5697 * 39

$$\begin{array}{r}
 1011001000001 \\
 * \quad 1011001 \\
 \hline
 1011001000001 \\
 0000000000000 \\
 + 1011001000001 \\
 1011001000001 \\
 0000000000000 \\
 1011001000001 \\
 \hline
 1111011110010001
 \end{array}$$

3237 * 37

$$\begin{array}{r}
 1100101001001 \\
 * \quad 100101 \\
 \hline
 1100101001001 \\
 0000000000000 \\
 + 1100101001001 \\
 0000000000000 \\
 1100101001001 \\
 \hline
 1110100111011001
 \end{array}$$

8373 * 21

$$\begin{array}{r}
 10000101010101 \\
 * \quad 10101 \\
 \hline
 10000101010101 \\
 0000000000000 \\
 + 10000101010101 \\
 0000000000000 \\
 10000101010101 \\
 \hline
 101010111011011001
 \end{array}$$

4273 * 93

8019 * 45

$$\begin{array}{r}
 11000010110001 \\
 * 1011101 \\
 + 1000000000000 \\
 1000000000000 \\
 1000000000000 \\
 0000000000000 \\
 1000000000000 \\
 \hline
 11000010110001
 \end{array}$$

$$\begin{array}{r}
 11111010110001 \\
 * 1011101 \\
 + 1000000000000 \\
 1000000000000 \\
 1000000000000 \\
 1000000000000 \\
 0000000000000 \\
 1000000000000 \\
 \hline
 10111010110001
 \end{array}$$

1100001011000110111010110001

429 * 93

377 * 13

$$\begin{array}{r}
 110101010001 \\
 * 1011101 \\
 + 10000000000 \\
 10000000000 \\
 10000000000 \\
 10000000000 \\
 10000000000 \\
 \hline
 100110100001
 \end{array}$$

$$\begin{array}{r}
 10111010110001 \\
 * 1011101 \\
 + 1000000000000 \\
 1000000000000 \\
 1000000000000 \\
 1000000000000 \\
 \hline
 10011010110001
 \end{array}$$

10011010000110011010110001

8957 * 97

4797 * 81

$$\begin{array}{r}
 100010101111001 \\
 * 10111010110001 \\
 100010101111001 \\
 000000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 100010101111001 \\
 000000000000000 \\
 100010101111001 \\
 \hline
 10111010110001
 \end{array}$$

$$\begin{array}{r}
 100010101111001 \\
 * 10111010110001 \\
 100010101111001 \\
 000000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 100010101111001 \\
 100010101111001 \\
 \hline
 10111010110001
 \end{array}$$

1011101011000110111010110001

1501 * 21

8153 * 69

$$\begin{array}{r}
 11111110110001 \\
 * 10111010110001 \\
 11111110110001 \\
 000000000000000 \\
 + 11111110110001 \\
 000000000000000 \\
 000000000000000 \\
 11111110110001 \\
 \hline
 10001000101011001
 \end{array}$$

$$\begin{array}{r}
 10111010110001 \\
 * 10111010110001 \\
 10111010110001 \\
 000000000000000 \\
 + 10111010110001 \\
 000000000000000 \\
 10111010110001 \\
 10111010110001 \\
 \hline
 11111110110001
 \end{array}$$

1000100010101100111111110110001

G761 * 93

4749 * 97

$$\begin{array}{r}
 1101001101001 \\
 * \quad 1011101 \\
 \hline
 1101001101001 \\
 0000000000000 \\
 1101001101001 \\
 + \quad 1101001101001 \\
 1101001101001 \\
 0000000000000 \\
 1101001101001 \\
 \hline
 1001100110000010001
 \end{array}$$

$$\begin{array}{r}
 1001010001101 \\
 * \quad 1100000 \\
 \hline
 1001010001101 \\
 0000000000000 \\
 1001010001101 \\
 + \quad 1001010001101 \\
 1001010001101 \\
 \hline
 1110000011101101
 \end{array}$$

3629 * 65

$$\begin{array}{r}
 1110001101101 \\
 * \quad 1000000 \\
 \hline
 1110001101101 \\
 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 1110001101101 \\
 \hline
 1110001101101
 \end{array}$$

3009 * 65

$$\begin{array}{r}
 1011111000001 \\
 * \quad 1000000 \\
 \hline
 1011111000001 \\
 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 1011111000001 \\
 \hline
 1011111000001
 \end{array}$$

10733 * 93

$$\begin{array}{r}
 100001100001 \\
 * \quad 1011101 \\
 \hline
 100001100001 \\
 0000000000000 \\
 100001100001 \\
 + \quad 100001100001 \\
 100001100001 \\
 0000000000000 \\
 100001100001 \\
 \hline
 110000110001
 \end{array}$$

4809 * 89

$$\begin{array}{r}
 1001011001001 \\
 * \quad 100101001 \\
 \hline
 1001011001001 \\
 0000000000000 \\
 1001011001001 \\
 + \quad 1001011001001 \\
 1001011001001 \\
 0000000000000 \\
 1001011001001 \\
 \hline
 1101000000000
 \end{array}$$

5269 * 93

$$\begin{array}{r}
 101001000100000 \\
 * \quad 1011101 \\
 \hline
 101001000100000 \\
 000000000000000 \\
 101001000100000 \\
 + \quad 101001000100000 \\
 101001000100000 \\
 000000000000000 \\
 101001000100000 \\
 \hline
 111011110100000
 \end{array}$$

1409 * 25

$$\begin{array}{r}
 101011111101 \\
 * \quad 11001 \\
 \hline
 101011111101 \\
 0000000000000 \\
 101011111101 \\
 + \quad 101011111101 \\
 101011111101 \\
 \hline
 10001001001001
 \end{array}$$

1469 * 45

$$\begin{array}{r}
 101101111101 \\
 * 10110101 \\
 + 1011010101 \\
 1011010101 \\
 1011010101 \\
 \hline
 100000000000
 \end{array}$$

5797 * 73

$$\begin{array}{r}
 101101010101 \\
 * 1011010101 \\
 + 000000000000 \\
 000000000000 \\
 000000000000 \\
 000000000000 \\
 \hline
 101101010101
 \end{array}$$

8101 * 53

$$\begin{array}{r}
 1111110100101 \\
 * 110101 \\
 + 101101010101 \\
 10000000000000 \\
 101101010101 \\
 101101010101 \\
 \hline
 11010001101000001
 \end{array}$$

8313 * 17

$$\begin{array}{r}
 10000000111001 \\
 * 10001 \\
 + 00000000000000 \\
 00000000000000 \\
 00000000000000 \\
 10000000111001 \\
 \hline
 10001010000000000
 \end{array}$$

8109 * 57

$$\begin{array}{r}
 1111110101101 \\
 * 111001 \\
 + 111101010101 \\
 10000000000000 \\
 10000000000000 \\
 111101010101 \\
 111101010101 \\
 111101010101 \\
 \hline
 111000011011000001
 \end{array}$$

4537 * 89

$$\begin{array}{r}
 10001110111001 \\
 * 10111001 \\
 + 10001110111001 \\
 00000000000000 \\
 00000000000000 \\
 10001110111001 \\
 10001110111001 \\
 10001110111001 \\
 \hline
 11001101001010001
 \end{array}$$

6181 * 57

$$\begin{array}{r}
 1100000100101 \\
 * 111001 \\
 + 1100000100101 \\
 00000000000000 \\
 00000000000000 \\
 1100000100101 \\
 1100000100101 \\
 \hline
 10010101101001
 \end{array}$$

4981 * 85

$$\begin{array}{r}
 1001101110101 \\
 * 101101 \\
 + 1001101110101 \\
 00000000000000 \\
 00000000000000 \\
 1001101110101 \\
 1001101110101 \\
 1001101110101 \\
 \hline
 1100110110111001
 \end{array}$$

4865 * 25

$$\begin{array}{r}
 1222222222222222 \\
 \times \quad 22222222 \\
 \hline
 2000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1000000000000000 \\
 1000000000000000 \\
 \hline
 2222222222222222
 \end{array}$$

4381 * 25

$$\begin{array}{r}
 2000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1000000000000000 \\
 1000000000000000 \\
 \hline
 2222222222222222
 \end{array}$$

1577 * 93

$$\begin{array}{r}
 1222222222222222 \\
 \times \quad 22222222 \\
 \hline
 2120000000000000 \\
 0000000000000000 \\
 1200000000000000 \\
 + \quad 1200000000000000 \\
 1200000000000000 \\
 0000000000000000 \\
 1200000000000000 \\
 \hline
 2222222222222222
 \end{array}$$

541 * 17

$$\begin{array}{r}
 2222222222222222 \\
 \times \quad 22222222 \\
 \hline
 1000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1000000000000000 \\
 \hline
 2222222222222222
 \end{array}$$

1013 * 81

$$\begin{array}{r}
 2222222222222222 \\
 \times \quad 22222222 \\
 \hline
 2222222222222222 \\
 0000000000000000 \\
 + \quad 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 \hline
 2222222222222222
 \end{array}$$

8125 * 85

$$\begin{array}{r}
 2222222222222222 \\
 \times \quad 22222222 \\
 \hline
 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 \hline
 2222222222222222
 \end{array}$$

7221 * 41

$$\begin{array}{r}
 2222222222222222 \\
 \times \quad 22222222 \\
 \hline
 2222222222222222 \\
 0000000000000000 \\
 + \quad 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 \hline
 2222222222222222
 \end{array}$$

365 * 89

$$\begin{array}{r}
 2222222222222222 \\
 \times \quad 22222222 \\
 \hline
 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 0000000000000000 \\
 + \quad 2222222222222222 \\
 0000000000000000 \\
 2222222222222222 \\
 \hline
 2222222222222222
 \end{array}$$

4929 * 53

$$\begin{array}{r}
 1011011011001101 \\
 \times 10100101010101 \\
 \hline
 100110101010101 \\
 000000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 100110101010101 \\
 \hline
 1011011011001101
 \end{array}$$

2981 * 17

$$\begin{array}{r}
 1011011011001101 \\
 \times 101101010101 \\
 \hline
 1011010101010101 \\
 000000000000000 \\
 + 000000000000000 \\
 1011010101010101 \\
 \hline
 1011010101010101
 \end{array}$$

8609 * 53

$$\begin{array}{r}
 10000000001110101 \\
 \times 11010101 \\
 \hline
 10000000001110101 \\
 000000000000000 \\
 + 100000001110101 \\
 000000000000000 \\
 100000001110101 \\
 100000001110101 \\
 \hline
 1101011110000000110101
 \end{array}$$

969 * 53

$$\begin{array}{r}
 111110101001 \\
 \times 11010101 \\
 \hline
 111110101001 \\
 000000000000 \\
 + 111110101001 \\
 000000000000 \\
 111110101001 \\
 111110101001 \\
 \hline
 1101010101011101
 \end{array}$$

7269 * 21

$$\begin{array}{r}
 1101110110001 \\
 \times 1010101010101 \\
 \hline
 1101110110001 \\
 0000000000000 \\
 + 1101110110001 \\
 0000000000000 \\
 1101110110001 \\
 \hline
 1011011011001101
 \end{array}$$

3045 * 77

$$\begin{array}{r}
 1011111100101 \\
 \times 101110101 \\
 \hline
 1011111100101 \\
 0000000000000 \\
 + 1011111100101 \\
 1011111100101 \\
 0000000000000 \\
 1011111100101 \\
 \hline
 1110011001111000001
 \end{array}$$

101 * 97

$$\begin{array}{r}
 1100101 \\
 \times 1100000 \\
 \hline
 1100101 \\
 0000000 \\
 + 0000000 \\
 0000000 \\
 1100101 \\
 1100101 \\
 \hline
 101101010101
 \end{array}$$

5865 * 5

$$\begin{array}{r}
 1011011101001 \\
 \times 1011011010101 \\
 \hline
 1011011101001 \\
 0000000000000 \\
 + 1011011101001 \\
 1011011101001 \\
 \hline
 1110011011001101
 \end{array}$$

6049 * 85

8289 * 81

$$\begin{array}{r}
 101111100011101 \\
 * \quad \quad \quad 101101001 \\
 + \quad \quad \quad 1011110011101 \\
 101111000000000 \\
 101111000000000 \\
 101111000000000 \\
 101111000000000 \\
 101111000000000 \\
 \hline
 1111110100110010001
 \end{array}$$

$$\begin{array}{r}
 1111110001100001 \\
 * \quad \quad \quad 1111110001 \\
 + \quad \quad \quad 10000000000000 \\
 10000000000000 \\
 10000000000000 \\
 10000000000000 \\
 10000000000000 \\
 \hline
 1111110001100001
 \end{array}$$

3301 * 97

6273 * 84

$$\begin{array}{r}
 11222111222101 \\
 * \quad \quad \quad 112222001 \\
 + \quad \quad \quad 112222001 \\
 100011100010001 \\
 00000000000000 \\
 00000000000000 \\
 112222111000100 \\
 112222111000100 \\
 \hline
 100111000010001
 \end{array}$$

$$\begin{array}{r}
 1111110001100001 \\
 * \quad \quad \quad 1111110001 \\
 + \quad \quad \quad 1111110001 \\
 1111110001100001 \\
 1111110001100001 \\
 1111110001100001 \\
 1111110001100001 \\
 \hline
 1111110001100001
 \end{array}$$

4433 * 17

397 * 57

$$\begin{array}{r}
 100011100010001 \\
 * \quad \quad \quad 10001110001 \\
 + \quad \quad \quad 100011100010001 \\
 00000000000000 \\
 00000000000000 \\
 100011100010001 \\
 \hline
 122122011220112201
 \end{array}$$

$$\begin{array}{r}
 1111110001100001 \\
 * \quad \quad \quad 1111110001 \\
 + \quad \quad \quad 1111110001 \\
 1111110001100001 \\
 1111110001100001 \\
 1111110001100001 \\
 \hline
 1111110001100001
 \end{array}$$

4321 * 37

6405 * 89

$$\begin{array}{r}
 100011100010001 \\
 * \quad \quad \quad 10001110001 \\
 + \quad \quad \quad 100011100010001 \\
 00000000000000 \\
 00000000000000 \\
 100011100010001 \\
 00000000000000 \\
 100011100010001 \\
 \hline
 12212211220001001
 \end{array}$$

$$\begin{array}{r}
 1111110001100001 \\
 * \quad \quad \quad 1111110001 \\
 + \quad \quad \quad 1111110001 \\
 1111110001100001 \\
 1111110001100001 \\
 1111110001100001 \\
 \hline
 1111110001100001
 \end{array}$$

3697 * 29

6089 * 85

$$\begin{array}{r}
 11110011110001 \\
 * \quad \quad 111001 \\
 \hline
 11110011110001 \\
 0000000000000 \\
 + \quad 111000110001 \\
 111000110001 \\
 111000110001 \\
 \hline
 110100010001
 \end{array}$$

$$\begin{array}{r}
 10111111001001 \\
 * \quad \quad 101010101 \\
 \hline
 10111111001001 \\
 0000000000000 \\
 + \quad 1011111001001 \\
 0000000000000 \\
 1011111001001 \\
 \hline
 1011111001001
 \end{array}$$

7233 * 45

8183 * 33

$$\begin{array}{r}
 111100011000001 \\
 * \quad \quad 1011001 \\
 \hline
 11100010000001 \\
 0000000000000 \\
 + \quad 11100010000001 \\
 11100010000001 \\
 0000000000000 \\
 11100010000001 \\
 \hline
 100111101101101
 \end{array}$$

$$\begin{array}{r}
 1111111111101 \\
 * \quad \quad 1000001 \\
 \hline
 1111111111101 \\
 0000000000000 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 1111111111101 \\
 \hline
 1000000000000
 \end{array}$$

1237 * 85

8201 * 65

$$\begin{array}{r}
 1001111010001 \\
 * \quad \quad 1010101 \\
 \hline
 1001111010001 \\
 0000000000000 \\
 + \quad 1001111010001 \\
 0000000000000 \\
 1001111010001 \\
 0000000000000 \\
 1001111010001 \\
 \hline
 1101000000000
 \end{array}$$

$$\begin{array}{r}
 1000000000001 \\
 * \quad \quad 1000001 \\
 \hline
 1000000000001 \\
 0000000000000 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 1000000000001 \\
 \hline
 1000000000001
 \end{array}$$

7365 * 37

2337 * 89

$$\begin{array}{r}
 11110010111001 \\
 * \quad \quad 1001001 \\
 \hline
 11110010111001 \\
 0000000000000 \\
 + \quad 11110010111001 \\
 0000000000000 \\
 11110010111001 \\
 0000000000000 \\
 11110010111001 \\
 \hline
 100011000100001
 \end{array}$$

$$\begin{array}{r}
 1001000000001 \\
 * \quad \quad 1011001 \\
 \hline
 1001000000001 \\
 0000000000000 \\
 + \quad 1001000000001 \\
 1001000000001 \\
 0000000000000 \\
 1001000000001 \\
 \hline
 1100100100001
 \end{array}$$

4561 * 29

3725 * 93

$$\begin{array}{r}
 1110110001001 \\
 \times \quad 11101 \\
 \hline
 1110110001001 \\
 + 1000000000000 \\
 1110110001001 \\
 1110110001001 \\
 1110110001001 \\
 \hline
 1101010001001
 \end{array}$$

$$\begin{array}{r}
 1110110001001 \\
 \times \quad 1011101 \\
 \hline
 1110110001001 \\
 + 1000000000000 \\
 1110110001001 \\
 1110110001001 \\
 1110110001001 \\
 1000000000000 \\
 1110110001001 \\
 \hline
 1011010001001
 \end{array}$$

4405 * 33

2825 * 53

$$\begin{array}{r}
 100010011010101 \\
 \times \quad 10001001 \\
 \hline
 100010011010101 \\
 000000000000000 \\
 + 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 100010011010101 \\
 \hline
 100010011010101
 \end{array}$$

$$\begin{array}{r}
 1011100001001 \\
 0000000000000 \\
 + 1011100001001 \\
 0000000000000 \\
 1011100001001 \\
 1011100001001 \\
 \hline
 101100010001101
 \end{array}$$

4709 * 37

6381 * 54

$$\begin{array}{r}
 1001001100101 \\
 \times \quad 100101 \\
 \hline
 1001001100101 \\
 0000000000000 \\
 + 1001010100101 \\
 0000000000000 \\
 0000000000000 \\
 1001001100101 \\
 \hline
 1001001100101
 \end{array}$$

$$\begin{array}{r}
 11000110110101 \\
 0000000000000 \\
 + 11000110110101 \\
 11000110110101 \\
 11000110110101 \\
 \hline
 101100011001101
 \end{array}$$

6169 * 17

361 * 89

$$\begin{array}{r}
 11000000010001 \\
 \times \quad 10001 \\
 \hline
 11000000010001 \\
 00000000000000 \\
 + 00000000000000 \\
 11000000010001 \\
 11000000010001 \\
 \hline
 1100110011001001
 \end{array}$$

$$\begin{array}{r}
 1011101001 \\
 0000000000 \\
 + 1011101001 \\
 1011101001 \\
 0000000000 \\
 1011101001 \\
 \hline
 11111011100001
 \end{array}$$

981 * 85

5629 * 53

$$\begin{array}{r}
 1111010101 \\
 + 101010101 \\
 \hline
 11111010101 \\
 00000000000 \\
 + 1111010101 \\
 00000000000 \\
 111101010101 \\
 00000000000 \\
 \hline
 1111010101 \\
 \hline
 10100010011001
 \end{array}$$

$$\begin{array}{r}
 101011111101 \\
 + 110101 \\
 \hline
 101010111101 \\
 0000000000000 \\
 + 101011111101 \\
 0000000000000 \\
 101011111101 \\
 101011111101 \\
 \hline
 101010001101101
 \end{array}$$

5949 * 37

7517 * 33

$$\begin{array}{r}
 1010101000101 \\
 + 10001000101 \\
 \hline
 1010101000101 \\
 0000000000000 \\
 + 1010101000101 \\
 0000000000000 \\
 1010101000101 \\
 \hline
 1100010010111001
 \end{array}$$

$$\begin{array}{r}
 1111010101101 \\
 + 1000000000000 \\
 \hline
 1111010101101 \\
 0000000000000 \\
 0000000000000 \\
 1111010101101 \\
 \hline
 1111000100001101
 \end{array}$$

8297 * 33

4677 * 49

$$\begin{array}{r}
 100000001101001 \\
 + 1000000010001 \\
 \hline
 100000001101001 \\
 0000000000000 \\
 + 0000000000000 \\
 0000000000000 \\
 100000001101001 \\
 \hline
 10000001011011001
 \end{array}$$

$$\begin{array}{r}
 1111111101101 \\
 + 1100000000000 \\
 \hline
 1111111101101 \\
 0000000000000 \\
 1111111101101 \\
 1111111101101 \\
 \hline
 110000001100001
 \end{array}$$

2321 * 49

1269 * 69

$$\begin{array}{r}
 100111110101 \\
 + 100000000000 \\
 \hline
 100111110101 \\
 000000000000 \\
 + 100111110101 \\
 000000000000 \\
 100111110101 \\
 \hline
 1010101100001001
 \end{array}$$

$$\begin{array}{r}
 1001000100001 \\
 + 1001000100001 \\
 \hline
 1001000100001 \\
 0000000000000 \\
 1001000100001 \\
 \hline
 1100111111111101
 \end{array}$$

1753 * 83

$$\begin{array}{r}
 111211211001 \\
 * 1010101 \\
 + 11011010001 \\
 100000000000 \\
 11011011001 \\
 00000000000 \\
 11011011001 \\
 \hline
 10101010001 \\
 10101010001 \\
 10101010001 \\
 10101010001 \\
 \hline
 10101010001
 \end{array}$$

2645 * 33

$$\begin{array}{r}
 1010101010101 \\
 * 10101010101 \\
 + 000000000000 \\
 000000000000 \\
 000000000000 \\
 1010101010101 \\
 \hline
 1010101010101
 \end{array}$$

573 * 61

$$\begin{array}{r}
 10001111101 \\
 * 1111101 \\
 + 11000111101 \\
 00000000000 \\
 10001111101 \\
 10001111101 \\
 10001111101 \\
 10001111101 \\
 \hline
 10001111101 \\
 10001111101 \\
 10001111101
 \end{array}$$

1233 * 37

$$\begin{array}{r}
 10011010001 \\
 * 10011010001 \\
 + 00000000000 \\
 10011010001 \\
 00000000000 \\
 00000000000 \\
 10011010001 \\
 \hline
 10110010001 \\
 10110010001
 \end{array}$$

1933 * 81

$$\begin{array}{r}
 111110001101 \\
 * 1010001 \\
 \hline
 111110001101 \\
 000000000000 \\
 000000000000 \\
 111110001101 \\
 000000000000 \\
 111110001101 \\
 \hline
 1010110001101
 \end{array}$$

4025 * 53

$$\begin{array}{r}
 111110111001 \\
 * 110101 \\
 \hline
 111110111001 \\
 000000000000 \\
 111110111001 \\
 100000000000 \\
 111110111001 \\
 111110111001 \\
 \hline
 110110000000
 \end{array}$$

8849 * 5

$$\begin{array}{r}
 10001010010001 \\
 * 101 \\
 + 10001010010001 \\
 00000000000000 \\
 10001010010001 \\
 \hline
 10101010010001
 \end{array}$$

7037 * 29

$$\begin{array}{r}
 1101101111101 \\
 * 111101 \\
 \hline
 1101101111101 \\
 00000000000000 \\
 1101101111101 \\
 1101101111101 \\
 1101101111101 \\
 \hline
 11000000000000
 \end{array}$$

5409 * 33

3513 * 37

$$\begin{array}{r} 101010100100001 \\ \times 1000001 \\ \hline + 000000000000 \\ 000000000000 \\ 000000000000 \\ 000000000000 \\ 1010100100001 \\ \hline 101011100100001 \end{array}$$

$$\begin{array}{r} 110110111001001 \\ \times 110000000000 \\ \hline + 000000000000 \\ 000000000000 \\ 000000000000 \\ 110110111001001 \\ 110110111001001 \\ \hline 101001100110011001 \end{array}$$

4337 * 41

$$\begin{array}{r} 10000111110001 \\ \times 101001 \\ \hline + 00000000000000 \\ 10000111110001 \\ 00000000000000 \\ 10000111110001 \\ \hline 1010110110110011001 \end{array}$$

$$\begin{array}{r} 10001001111001 \\ \times 11001 \\ \hline + 00000000000000 \\ 10001001111001 \\ 10001001111001 \\ \hline 11010111011110011001 \end{array}$$

8121 * 57

$$\begin{array}{r} 1000000000111001 \\ \times 111001 \\ \hline + 00000000000000 \\ 10000000000000 \\ 10000000000000 \\ 10000000000000 \\ 10000000000000 \\ 1110010011001111001 \\ \hline 1110010011001111001 \end{array}$$

1577 * 37

$$\begin{array}{r} 110001010001 \\ \times 1001001 \\ \hline + 000000000000 \\ 110001010001 \\ 000000000000 \\ 110001010001 \\ \hline 1110001111101101 \end{array}$$

3385 * 69

$$\begin{array}{r} 11010011110001 \\ \times 10001001 \\ \hline + 00000000000000 \\ 00000000000000 \\ 11010011110001 \\ 11010011110001 \\ \hline 1110010000001001 \end{array}$$

1789 * 93

$$\begin{array}{r} 1111110000101 \\ \times 101111000101 \\ \hline + 00000000000000 \\ 111111000101 \\ 111111000101 \\ 111111000101 \\ 00000000000000 \\ 111111000101 \\ \hline 10110000010011001 \end{array}$$

3877 * 13

2453 * 45

$$\begin{array}{r}
 111100100101 \\
 * \quad \quad 1108 \\
 \hline
 000000000000 \\
 000000000000 \\
 + \quad \quad 111100100101 \\
 111100100101 \\
 \hline
 101110010010100
 \end{array}$$

$$\begin{array}{r}
 100011001101 \\
 * \quad \quad 121101 \\
 \hline
 100011001101 \\
 000000000000 \\
 + \quad \quad 100011001101 \\
 100011001101 \\
 \hline
 10001100110100
 \end{array}$$

1657 * 9

3153 * 89

$$\begin{array}{r}
 11001111001 \\
 * \quad \quad 12081 \\
 \hline
 11001111001 \\
 000000000000 \\
 + \quad \quad 11001111001 \\
 11001111001 \\
 \hline
 11101001000001
 \end{array}$$

$$\begin{array}{r}
 1100010010001 \\
 * \quad \quad 1211081 \\
 \hline
 1100010010001 \\
 000000000000 \\
 + \quad \quad 1100010010001 \\
 1100010010001 \\
 \hline
 10000000000001
 \end{array}$$

3243 * 29

7197 * 89

$$\begin{array}{r}
 1100101010101 \\
 * \quad \quad 111401 \\
 \hline
 1100101010101 \\
 000000000000 \\
 + \quad \quad 1100101010101 \\
 1100101010101 \\
 \hline
 101110111000101
 \end{array}$$

$$\begin{array}{r}
 1110000011101 \\
 * \quad \quad 1211081 \\
 \hline
 1110000011101 \\
 000000000000 \\
 + \quad \quad 1110000011101 \\
 1110000011101 \\
 \hline
 10001110000001
 \end{array}$$

2321 * 65

2697 * 89

$$\begin{array}{r}
 100100010001 \\
 * \quad \quad 120810001 \\
 \hline
 100100010001 \\
 000000000000 \\
 + \quad \quad 000000000000 \\
 000000000000 \\
 000000000000 \\
 100100010001 \\
 \hline
 1001000100010001
 \end{array}$$

$$\begin{array}{r}
 1001010101101 \\
 * \quad \quad 12110161 \\
 \hline
 1001010101101 \\
 000000000000 \\
 + \quad \quad 1001010101101 \\
 1001010101101 \\
 \hline
 100101010110100
 \end{array}$$

4053 * 61

5925 * 84

$$\begin{array}{r}
 1011111010101 \\
 * \quad 10110101 \\
 + \quad 1111111010101 \\
 100000000000000 \\
 + \quad 1111111010101 \\
 1111111010101 \\
 1111111010101 \\
 1111111010101 \\
 \hline
 111111101010101
 \end{array}$$

$$\begin{array}{r}
 101111101010101 \\
 * \quad 101110101 \\
 + \quad 1011101010101 \\
 100000000000000 \\
 + \quad 1011101010101 \\
 1011101010101 \\
 1011101010101 \\
 1011101010101 \\
 \hline
 100000000000000
 \end{array}$$

563 * 97

5825 * 54

$$\begin{array}{r}
 10111110101 \\
 * \quad 10110101 \\
 + \quad 10110101 \\
 100010101 \\
 000000000 \\
 + \quad 000000000 \\
 000000000 \\
 100110101 \\
 100110101 \\
 \hline
 11101010101
 \end{array}$$

$$\begin{array}{r}
 101111101010101 \\
 * \quad 10110101 \\
 + \quad 1011010101 \\
 101101010101 \\
 000000000000000 \\
 + \quad 101101010101 \\
 101101010101 \\
 000000000000000 \\
 000000000000000 \\
 101101010101 \\
 \hline
 1101001001010101
 \end{array}$$

7313 * 9

6021 * 69

$$\begin{array}{r}
 111111101010101 \\
 * \quad 10110101 \\
 + \quad 10110101 \\
 111111101010101 \\
 000000000000000 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 111111101010101 \\
 \hline
 1000110101010101
 \end{array}$$

$$\begin{array}{r}
 101111101010101 \\
 * \quad 10110101 \\
 + \quad 1011010101 \\
 101101010101 \\
 000000000000000 \\
 + \quad 101101010101 \\
 101101010101 \\
 000000000000000 \\
 000000000000000 \\
 101101010101 \\
 \hline
 110010101010101
 \end{array}$$

7337 * 85

3593 * 27

$$\begin{array}{r}
 1111010101010101 \\
 * \quad 10110101 \\
 + \quad 1011010101010101 \\
 1111010101010101 \\
 000000000000000 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 1111010101010101 \\
 000000000000000 \\
 1111010101010101 \\
 \hline
 1000110101010101
 \end{array}$$

$$\begin{array}{r}
 111111101010101 \\
 * \quad 10110101 \\
 + \quad 1011010101 \\
 111111101010101 \\
 000000000000000 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 111111101010101 \\
 \hline
 111010101010101
 \end{array}$$

6377 * 69

1105 * 33

$$\begin{array}{r}
 110001101001 \\
 * \quad 1000101 \\
 + \quad 1000000000 \\
 100001101001 \\
 000000000000 \\
 000000000000 \\
 110001101001 \\
 \hline
 1101011010011001
 \end{array}$$

$$\begin{array}{r}
 100001010001 \\
 * \quad 1000000000 \\
 + \quad 000000000000 \\
 000000000000 \\
 100001010001 \\
 \hline
 1000010100011001
 \end{array}$$

8197 * 37

4593 * 33

$$\begin{array}{r}
 1000000000000001 \\
 * \quad 1000101 \\
 + \quad 1000000000000001 \\
 0000000000000000 \\
 0000000000000000 \\
 1000000000000001 \\
 \hline
 10010010000000011001
 \end{array}$$

$$\begin{array}{r}
 10000111110001 \\
 * \quad 1000000000 \\
 + \quad 000000000000 \\
 000000000000 \\
 10000111110001 \\
 \hline
 10010010000000011001
 \end{array}$$

5653 * 93

6001 * 61

$$\begin{array}{r}
 1011000000000001 \\
 * \quad 10111101 \\
 + \quad 1011000000000001 \\
 1011000000000001 \\
 1011000000000001 \\
 1000000000000000 \\
 1011000000000001 \\
 \hline
 10000000000000011001
 \end{array}$$

$$\begin{array}{r}
 10111100101101 \\
 * \quad 111101 \\
 + \quad 10111100101101 \\
 10111100101101 \\
 10111100101101 \\
 10111100101101 \\
 10111100101101 \\
 \hline
 101111001011011001
 \end{array}$$

6645 * 65

8365 * 17

$$\begin{array}{r}
 11001111110101 \\
 * \quad 1000000000000001 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 11001111110101 \\
 \hline
 11012001001100101
 \end{array}$$

$$\begin{array}{r}
 10000101110001 \\
 * \quad 1000000000000000 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 10000101110001 \\
 \hline
 100001011100011001
 \end{array}$$

1717 * 97

$$\begin{array}{r}
 11212112121 \\
 \times \quad 1122221 \\
 \hline
 + \quad 110120220201 \\
 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 110101110202 \\
 11010220202 \\
 \hline
 1010001001010101
 \end{array}$$

8161 * 5

$$\begin{array}{r}
 1121111111222222 \\
 \times \quad 121 \\
 \hline
 + \quad 111221111200000 \\
 000000000000000 \\
 111221111200000 \\
 \hline
 1081111111011100101
 \end{array}$$

1037 * 49

$$\begin{array}{r}
 102012211581 \\
 \times \quad 110001 \\
 \hline
 + \quad 1000020002001 \\
 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 1000020001001 \\
 1000010002001 \\
 \hline
 2181000001111281
 \end{array}$$

7645 * 27

$$\begin{array}{r}
 11121111011101 \\
 \times \quad 111101 \\
 \hline
 11101111011101 \\
 000000000000000 \\
 11101111011101 \\
 11101111011101 \\
 11101110111101 \\
 \hline
 11011000100000101
 \end{array}$$

7895 * 73

$$\begin{array}{r}
 11112111111101 \\
 \times \quad 10011021 \\
 \hline
 + \quad 1112011101010101 \\
 000000000000000 \\
 000000000000000 \\
 11120111010101 \\
 000000000000000 \\
 000000000000000 \\
 11120111010101 \\
 \hline
 1200011000101010111101
 \end{array}$$

8129 * 29

$$\begin{array}{r}
 1000000000100101 \\
 \times \quad 111101 \\
 \hline
 + \quad 100000000000000 \\
 000000000000000 \\
 100000000000000 \\
 100000000000000 \\
 100000000000000 \\
 \hline
 11101000100000101
 \end{array}$$

2495 * 83

$$\begin{array}{r}
 10011111111101 \\
 \times \quad 10010011 \\
 \hline
 + \quad 1001201111101 \\
 1001201111101 \\
 0000000000000 \\
 0000000000000 \\
 1001201111101 \\
 0000000000000 \\
 1002101111101 \\
 \hline
 110010010000111
 \end{array}$$

5237 * 93

$$\begin{array}{r}
 10100011111101 \\
 \times \quad 10111101 \\
 \hline
 + \quad 10100011111101 \\
 10100011111101 \\
 10100011111101 \\
 10100011111101 \\
 10100011111101 \\
 \hline
 1111101110100010001
 \end{array}$$

561 * 17

3493 * 49

$$\begin{array}{r}
 1000110001 \\
 * \quad 10001 \\
 \hline
 1000110001 \\
 + \quad 0000000000 \\
 0000000000 \\
 0000000000 \\
 1000110001 \\
 \hline
 1001010100001
 \end{array}$$

$$\begin{array}{r}
 110110100101 \\
 * \quad 11001 \\
 \hline
 110110100101 \\
 + \quad 000000000000 \\
 000000000000 \\
 000000000000 \\
 110110100101 \\
 \hline
 1110011111101
 \end{array}$$

1657 * 41

$$\begin{array}{r}
 11001111001 \\
 * \quad 101001 \\
 \hline
 11001111001 \\
 + \quad 0000000000 \\
 11001111001 \\
 0000000000 \\
 11001111001 \\
 \hline
 10000100100001
 \end{array}$$

2861 * 17

$$\begin{array}{r}
 101100101101 \\
 * \quad 10001 \\
 \hline
 101100101101 \\
 + \quad 000000000000 \\
 000000000000 \\
 101100101101 \\
 \hline
 1011101011101
 \end{array}$$

6705 * 37

$$\begin{array}{r}
 110101111001 \\
 * \quad 100101 \\
 \hline
 110101111001 \\
 + \quad 000000000000 \\
 000000000000 \\
 110101111001 \\
 \hline
 1111100101111101
 \end{array}$$

8517 * 93

$$\begin{array}{r}
 100001010000101 \\
 * \quad 1011101 \\
 \hline
 100001010000101 \\
 + \quad 00000000000000 \\
 100001010000101 \\
 + \quad 100001010000101 \\
 100001010000101 \\
 00000000000000 \\
 100001010000101 \\
 \hline
 110000000000000
 \end{array}$$

1517 * 17

$$\begin{array}{r}
 10111101101 \\
 * \quad 10001 \\
 \hline
 10111101101 \\
 + \quad 000000000000 \\
 000000000000 \\
 10111101101 \\
 \hline
 110010010011101
 \end{array}$$

2635 * 37

$$\begin{array}{r}
 1001111100101 \\
 * \quad 1001111 \\
 \hline
 1001111100101 \\
 + \quad 000000000000 \\
 1001111100101 \\
 000000000000 \\
 1001111100101 \\
 \hline
 10111011000101
 \end{array}$$

481 * 53

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 00000000000000000 \\
 11111111111111111 \\
 + 11111111111111111 \\
 11111111111111111 \\
 00000000000000000 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

5405 * 73

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 101010000011101 \\
 00000000000000000 \\
 11111111111111111 \\
 + 101010000011101 \\
 00000000000000000 \\
 00000000000000000 \\
 101010000011101 \\
 \hline
 11111111111111111
 \end{array}$$

8385 * 61

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 1000000110000001 \\
 0000000000000000 \\
 + 1000000110000001 \\
 1000000110000001 \\
 1000000110000001 \\
 1000000110000001 \\
 \hline
 11111111111111111
 \end{array}$$

509 * 33

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 11111111111111111 \\
 0000000000000000 \\
 + 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

6465 * 5

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 110010101000001 \\
 + 000000000000000 \\
 110010101000001 \\
 \hline
 11111111111111111
 \end{array}$$

8261 * 53

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 100000010001001 \\
 0000000000000000 \\
 + 100000010001001 \\
 0000000000000000 \\
 100000010001001 \\
 100000010001001 \\
 \hline
 11111111111111111
 \end{array}$$

2113 * 9

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 10000010000001 \\
 + 0000000000000 \\
 0000000000000 \\
 1000010000001 \\
 \hline
 11111111111111111
 \end{array}$$

1161 * 21

$$\begin{array}{r}
 11111111111111111 \\
 * 11111111111111111 \\
 \hline
 11111111111111111 \\
 1001100010001001 \\
 0000000000000000 \\
 + 1001100010001001 \\
 0000000000000000 \\
 1001100010001001 \\
 \hline
 11111111111111111
 \end{array}$$

5197 * 9

7489 * 29

$$\begin{array}{r}
 1110111 \\
 * 10011 \\
 \hline
 + 111011011 \\
 000000000 \\
 000000000 \\
 1110111 \\
 \hline
 10000101111
 \end{array}$$

$$\begin{array}{r}
 1111110011101 \\
 * 11101 \\
 \hline
 + 11111100110101 \\
 0000000000000 \\
 11111100110101 \\
 11111100110101 \\
 11111100110101 \\
 \hline
 111000100000000000
 \end{array}$$

5329 * 9

3849 * 14

$$\begin{array}{r}
 10101110101001 \\
 * 1001 \\
 \hline
 + 1010011010001 \\
 0000000000000 \\
 0000000000000 \\
 1010011010001 \\
 \hline
 101110110101001
 \end{array}$$

$$\begin{array}{r}
 1111100001001 \\
 * 10001 \\
 \hline
 + 0000000000000 \\
 0000000000000 \\
 11110000001001 \\
 \hline
 111111110011001
 \end{array}$$

3413 * 85

5625 * 45

$$\begin{array}{r}
 1101111010101 \\
 * 101010101 \\
 \hline
 + 1101111010101 \\
 0000000000000 \\
 1101111010101 \\
 0000000000000 \\
 1101111010101 \\
 \hline
 100001101101001
 \end{array}$$

$$\begin{array}{r}
 1010111111001 \\
 * 101101 \\
 \hline
 + 1010111111001 \\
 1010111111001 \\
 0000000000000 \\
 1010111111001 \\
 \hline
 11110110011001
 \end{array}$$

5961 * 29

6585 * 61

$$\begin{array}{r}
 1011110101001 \\
 * 11101 \\
 \hline
 + 1011110101001 \\
 0000000000000 \\
 1011110101001 \\
 1011110101001 \\
 1011110101001 \\
 \hline
 10100010001001
 \end{array}$$

$$\begin{array}{r}
 1110110111001 \\
 * 11101 \\
 \hline
 + 1100110111001 \\
 1100110111001 \\
 1100110111001 \\
 1100110111001 \\
 1100110111001 \\
 \hline
 11000110001001
 \end{array}$$

1397 * 77

$$\begin{array}{r}
 1100001111001 \\
 * 1011101 \\
 \hline
 1110001111001 \\
 0000000000000 \\
 + 1100011111001 \\
 11001111001 \\
 000000000000 \\
 000000000000 \\
 1100011111001 \\
 \hline
 1111000000001001
 \end{array}$$

2941 * 63

$$\begin{array}{r}
 1011011111001 \\
 * 111101 \\
 \hline
 1011011111001 \\
 0000000000000 \\
 + 1011011111001 \\
 1011011111001 \\
 1011011111001 \\
 1011011111001 \\
 \hline
 101011110011001
 \end{array}$$

1053 * 81

$$\begin{array}{r}
 1000001111001 \\
 * 1010001 \\
 \hline
 1000001111001 \\
 0000000000000 \\
 + 0000000000000 \\
 0000000000000 \\
 1000001111001 \\
 0000000000000 \\
 1000001111001 \\
 \hline
 10100011110011001
 \end{array}$$

1221 * 57

$$\begin{array}{r}
 1001100001001 \\
 * 111001 \\
 \hline
 1001100001001 \\
 0000000000000 \\
 + 1001100001001 \\
 1001100001001 \\
 1001100001001 \\
 \hline
 10000011110011001
 \end{array}$$

89 * 21

$$\begin{array}{r}
 1011001 \\
 * 10101 \\
 \hline
 10111001 \\
 0000000 \\
 + 1011001 \\
 0000000 \\
 1011001 \\
 \hline
 11101001101
 \end{array}$$

$$\begin{array}{r}
 1101111110001 \\
 * 1010101 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 1101111110001 \\
 0000000000000 \\
 + 1101111110001 \\
 0000000000000 \\
 1101111110001 \\
 \hline
 11110000000011001
 \end{array}$$

8933 * 93

$$\begin{array}{r}
 1000101111001001 \\
 * 1011101 \\
 \hline
 1000101111001001 \\
 0000000000000000 \\
 + 1000101111001001 \\
 1000101111001001 \\
 1000101111001001 \\
 0000000000000000 \\
 1000101111001001 \\
 \hline
 11001011110011001
 \end{array}$$

3273 * 77

$$\begin{array}{r}
 110011001001 \\
 * 10011001 \\
 \hline
 110011001001 \\
 0000000000000 \\
 + 110011001001 \\
 0000000000000 \\
 110011001001 \\
 \hline
 11110110000011001
 \end{array}$$

7785 * 61

$$\begin{array}{r}
 1111000110010001 \\
 * \quad \quad \quad 11110001 \\
 \hline
 1111000110010001 \\
 0000000000000000 \\
 + \quad 1111000110010001 \\
 1111000110010001 \\
 1111000110010001 \\
 \hline
 1111000110010001
 \end{array}$$

5117 * 41

$$\begin{array}{r}
 1111111111111111 \\
 * \quad \quad \quad 11111111 \\
 \hline
 1111111111111111 \\
 0000000000000000 \\
 + \quad 0000000000000000 \\
 1001111111111111 \\
 0000000000000000 \\
 1001111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

7589 * 13

$$\begin{array}{r}
 1111000110010001 \\
 * \quad \quad \quad 11110001 \\
 \hline
 1111000110010001 \\
 1000000000000000 \\
 1111000110010001 \\
 1111000110010001 \\
 \hline
 1111000110010001
 \end{array}$$

8613 * 29

$$\begin{array}{r}
 1111000110010001 \\
 * \quad \quad \quad 11110001 \\
 \hline
 1111000110010001 \\
 0000000000000000 \\
 + \quad 0000000000000000 \\
 1000011010010001 \\
 1000011010010001 \\
 1000011010010001 \\
 \hline
 1111000110010001
 \end{array}$$

2041 * 57

$$\begin{array}{r}
 1111111111111111 \\
 * \quad \quad \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 0000000000000000 \\
 + \quad 1000000000000000 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

37415 * 45

$$\begin{array}{r}
 11110101000001 \\
 * \quad \quad \quad 1011001 \\
 \hline
 11110101000001 \\
 00000000000000 \\
 + \quad 11110101000001 \\
 11110101000001 \\
 00000000000000 \\
 11110101000001 \\
 \hline
 1011001001001001
 \end{array}$$

36499 * 45

$$\begin{array}{r}
 1111000110010001 \\
 * \quad \quad \quad 1011001 \\
 \hline
 1111000110010001 \\
 0000000000000000 \\
 + \quad 1111000110010001 \\
 1111000110010001 \\
 0000000000000000 \\
 1111000110010001 \\
 \hline
 1011000110010001
 \end{array}$$

2909 * 29

$$\begin{array}{r}
 10110101011101 \\
 * \quad \quad \quad 111101 \\
 \hline
 10110101011101 \\
 00000000000000 \\
 + \quad 10110101011101 \\
 10110101011101 \\
 10110101011101 \\
 \hline
 10110101011101
 \end{array}$$

5393 * 69

6394 * 85

$$\begin{array}{r}
 1010111101001 \\
 + 1010111101001 \\
 \hline
 1010111101001
 \end{array}$$

$$\begin{array}{r}
 1010111101001 \\
 + 1010111101001 \\
 \hline
 1010111101001
 \end{array}$$

4345 * 29

3009 * 9

$$\begin{array}{r}
 10001111000001 \\
 + 10001111000001 \\
 \hline
 10001111000001
 \end{array}$$

$$\begin{array}{r}
 10111111000001 \\
 + 10111111000001 \\
 \hline
 10111111000001
 \end{array}$$

2284 * 65

2413 * 61

$$\begin{array}{r}
 10001111000001 \\
 + 10001111000001 \\
 \hline
 10001111000001
 \end{array}$$

$$\begin{array}{r}
 10010110110101 \\
 + 10010110110101 \\
 \hline
 10010110110101
 \end{array}$$

53 * 77

$$\begin{array}{r}
 110101 \\
 + 110101 \\
 \hline
 110101
 \end{array}$$

$$\begin{array}{r}
 10000111100001 \\
 + 10000111100001 \\
 \hline
 10000111100001
 \end{array}$$

8689 * 97

609 * 21

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

6321 * 61

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

409 * 53

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

7929 * 59

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

8017 * 61

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

8181 * 89

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

1969 * 31

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

5361 * 89

$$\begin{array}{r}
 1111111111111111 \\
 A \quad 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

7921 * 53

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

2657 * 37

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

1661 * 81

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

2743 * 65

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

3697 * 61

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

2645 * 33

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

5265 * 41

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

1404 * 89

$$\begin{array}{r}
 1111111111111111 \\
 + \\
 \hline
 1111111111111111 \\
 1111111111111111 \\
 + \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

3301 * 57

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

535 * 69

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

7661 * 25

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

2485 * 81

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

993 * 84

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 00000000000000 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

4705 * 84

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

7217 * 97

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

1649 * 61

$$\begin{array}{r}
 \begin{array}{r}
 11001111000101 \\
 \times \quad 111001 \\
 \hline
 11001111000101 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 11001111000101 \\
 11001111000101 \\
 00000000000000 \\
 11001111000101 \\
 \hline
 1011001111000101
 \end{array}
 \end{array}$$

7621 * 89

$$\begin{array}{r}
 1110111100001001 \\
 \times \quad 10101001 \\
 \hline
 1110111100001001 \\
 + 1110111100001001 \\
 1110111100001001 \\
 1110111100001001 \\
 \hline
 1010100100001001
 \end{array}$$

3985 * 73

$$\begin{array}{r}
 1111111000000000 \\
 \times \quad 1001000000000000 \\
 \hline
 1111111000000000 \\
 + 1111111000000000 \\
 1111111000000000 \\
 1111111000000000 \\
 \hline
 1000000000000000
 \end{array}$$

2364 * 29

$$\begin{array}{r}
 1011111000000000 \\
 \times \quad 11111111 \\
 \hline
 1011111000000000 \\
 + 1011111000000000 \\
 1011111000000000 \\
 1011111000000000 \\
 \hline
 1011111000000000
 \end{array}$$

3213 * 69

$$\begin{array}{r}
 1110001000000000 \\
 \times \quad 11111111 \\
 \hline
 1110001000000000 \\
 + 1110001000000000 \\
 1110001000000000 \\
 1110001000000000 \\
 1110001000000000 \\
 \hline
 1101100010000000
 \end{array}$$

6581 * 93

$$\begin{array}{r}
 1100011000000000 \\
 \times \quad 11111111 \\
 \hline
 1100011000000000 \\
 + 1100011000000000 \\
 1100011000000000 \\
 1100011000000000 \\
 1100011000000000 \\
 1100011000000000 \\
 \hline
 1001001000000000
 \end{array}$$

5139 * 33

$$\begin{array}{r}
 1110001000000000 \\
 \times \quad 11111111 \\
 \hline
 1110001000000000 \\
 + 1110001000000000 \\
 1110001000000000 \\
 1110001000000000 \\
 1110001000000000 \\
 \hline
 1010001000000000
 \end{array}$$

4201 * 47

$$\begin{array}{r}
 1000000000000000 \\
 \times \quad 11111111 \\
 \hline
 1000000000000000 \\
 + 1000000000000000 \\
 1000000000000000 \\
 1000000000000000 \\
 \hline
 1000000000000000
 \end{array}$$

7349 * 69

$$\begin{array}{r}
 1110001000000000 \\
 \times \quad 11111111 \\
 \hline
 1110001000000000 \\
 + 1110001000000000 \\
 1110001000000000 \\
 1110001000000000 \\
 1110001000000000 \\
 \hline
 1111001000000000
 \end{array}$$

5469 * 57

$$\begin{array}{r}
 101010101010101 \\
 + 101010101010101 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
101010101010101
101010101010101
101010101010101

101010101010101

3285 * 97

$$\begin{array}{r}
 101010101010101 \\
 + 000000000000000 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
000000000000000
101010101010101

101010101010101

2761 * 37

$$\begin{array}{r}
 101010101010101 \\
 + 101010101010101 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
101010101010101
000000000000000
000000000000000
101010101010101

101010101010101

7309 * 81

$$\begin{array}{r}
 101010101010101 \\
 + 000000000000000 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
000000000000000
101010101010101
000000000000000
101010101010101

101010101010101

5077 * 77

$$\begin{array}{r}
 101010101010101 \\
 + 101010101010101 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
101010101010101
000111101010101
000000000000000
000000000000000
100111101010101

101010101010101

3125 * 21

$$\begin{array}{r}
 101010101010101 \\
 + 000000000000000 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
000000000000000
101010101010101

101010101010101

1749 * 53

$$\begin{array}{r}
 101010101010101 \\
 + 101010101010101 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
101010101010101
000000000000000
101010101010101
110110101010101

101010101010101

757 * 73

$$\begin{array}{r}
 101010101010101 \\
 + 000000000000000 \\
 \hline
 101010101010101
 \end{array}$$

101010101010101
+ 000000000000000
000000000000000
101010101010101
000000000000000
101010101010101

101010101010101

2825 * 17

$$\begin{array}{r}
 1011000010001 \\
 \times \quad 10001 \\
 \hline
 1011000010001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 1011000010001 \\
 \hline
 1011000010001
 \end{array}$$

6513 * 17

$$\begin{array}{r}
 1011000010001 \\
 \times \quad 10001 \\
 \hline
 1011000010001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 10000100000001 \\
 \hline
 1011000010001
 \end{array}$$

1964 * 65

$$\begin{array}{r}
 1111100000001 \\
 \times \quad 100000001 \\
 \hline
 1111100000001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 1111000000001 \\
 \hline
 1111100000001
 \end{array}$$

1049 * 97

$$\begin{array}{r}
 1000000010001 \\
 \times \quad 110000001 \\
 \hline
 1000000010001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 1000000010001 \\
 \hline
 1100000010001
 \end{array}$$

185 * 41

$$\begin{array}{r}
 1011000010001 \\
 \times \quad 100000001 \\
 \hline
 1011000010001 \\
 + \quad 000000000 \\
 1011000010001 \\
 000000000 \\
 1011000010001 \\
 \hline
 1110000010001
 \end{array}$$

1425 * 53

$$\begin{array}{r}
 1011000010001 \\
 \times \quad 100000001 \\
 \hline
 1011000010001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 1011000010001 \\
 1011000010001 \\
 \hline
 1011000010001
 \end{array}$$

8193 * 17

$$\begin{array}{r}
 1000000010001 \\
 \times \quad 100000001 \\
 \hline
 1000000010001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 1000000010001 \\
 \hline
 1000000010001
 \end{array}$$

6443 * 49

$$\begin{array}{r}
 1000000010001 \\
 \times \quad 100000001 \\
 \hline
 1000000010001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 1000000010001 \\
 1000000010001 \\
 \hline
 1000000010001
 \end{array}$$

0925 * 69

$$\begin{array}{r}
 1100110100011001 \\
 \times \quad 100001001 \\
 \hline
 1100110100011001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 1100100011001 \\
 \hline
 11011000000000001
 \end{array}$$

4137 * 65

$$\begin{array}{r}
 10000000000000000 \\
 \times \quad 10000000000000000 \\
 \hline
 10000000000000000 \\
 + \quad 00000000000000000 \\
 00000000000000000 \\
 00000000000000000 \\
 10000000000000000 \\
 \hline
 10000000000000000
 \end{array}$$

725 * 25

$$\begin{array}{r}
 10111010101 \\
 \times \quad 11001 \\
 \hline
 101101010101 \\
 + \quad 00000000000 \\
 00000000000 \\
 101101010101 \\
 101101010101 \\
 \hline
 10000110110011001
 \end{array}$$

2577 * 25

$$\begin{array}{r}
 10100000000000000 \\
 \times \quad 11000000000000000 \\
 \hline
 10100000000000000 \\
 + \quad 00000000000000000 \\
 10100000000000000 \\
 10100000000000000 \\
 \hline
 11111011101010001
 \end{array}$$

4345 * 9

$$\begin{array}{r}
 100000111110001 \\
 \times \quad 10001 \\
 \hline
 100000111110001 \\
 + \quad 0000000000000 \\
 0000000000000 \\
 100000111110001 \\
 \hline
 10011000010000001
 \end{array}$$

3465 * 65

$$\begin{array}{r}
 1101100001001 \\
 \times \quad 10000000000000000 \\
 \hline
 1101100001001 \\
 + \quad 00000000000000000 \\
 00000000000000000 \\
 1101100001001 \\
 \hline
 1101100001001
 \end{array}$$

5061 * 54

$$\begin{array}{r}
 100111110001001 \\
 \times \quad 11110001 \\
 \hline
 100111110001001 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 100111110001001 \\
 100111110001001 \\
 \hline
 10001100110011001
 \end{array}$$

1341 * 33

$$\begin{array}{r}
 1010011111001 \\
 \times \quad 10000000000000000 \\
 \hline
 1010011111001 \\
 + \quad 00000000000000000 \\
 00000000000000000 \\
 1010011111001 \\
 \hline
 1010011111001
 \end{array}$$

丁巳年夏月

1364 # 23

4047-453

5633 * 13

$$\begin{array}{r}
 \text{1 1 1 1 1 1 1 1 1 1} \\
 \times \text{1 1 1 1 1 1 1 1} \\
 \hline
 \text{1 1 1 1 1 1 1 1 1 1} \\
 + \quad \text{0 0 0 0 0 0 0 0 0 0} \\
 \text{1 1 1 1 1 1 1 1 1 1} \\
 \text{1 1 1 1 1 1 1 1 1 1}
 \end{array}$$

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†

$\begin{array}{r} 31811111111111 \\ \times 10010001 \\ \hline \end{array}$	$\begin{array}{r} 1100110011001100 \\ + 0000000000000000 \\ \hline 1100110011001100 \end{array}$
--	--

†593 x 33

6433 * 05

393d64

1781 * 39

8125 * 89

$$\begin{array}{r}
 101011011101 \\
 \times \quad 10101101 \\
 \hline
 101011011101 \\
 000000000000 \\
 + \quad 000000000000 \\
 000000000000 \\
 101011011101 \\
 \hline
 1011000110011101
 \end{array}$$

$$\begin{array}{r}
 111111111111 \\
 \times \quad 10110001 \\
 \hline
 111111111111 \\
 000000000000 \\
 + \quad 111111110111 \\
 111111110111 \\
 000000000000 \\
 111111110111 \\
 \hline
 1011000110011101
 \end{array}$$

8433 * 41

5553 * 65

$$\begin{array}{r}
 10000011110001 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 10000011110001 \\
 00000000000000 \\
 10000011110001 \\
 \hline
 1010100011010011001
 \end{array}$$

$$\begin{array}{r}
 10101111110001 \\
 \times \quad 10100001 \\
 \hline
 10101111110001 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 00000000000000 \\
 10101111110001 \\
 \hline
 10110000000111001
 \end{array}$$

1301 * 57

1885 * 41

$$\begin{array}{r}
 101110111101 \\
 \times \quad 111001 \\
 \hline
 101110111101 \\
 100000000000 \\
 + \quad 000000000000 \\
 101110111101 \\
 101110111101 \\
 101110111101 \\
 \hline
 101001111000110101
 \end{array}$$

$$\begin{array}{r}
 111111111111 \\
 \times \quad 1011001 \\
 \hline
 111111111111 \\
 00000000000000 \\
 + \quad 111111111111 \\
 00000000000000 \\
 111111111111 \\
 111010111101 \\
 \hline
 1001001101110101
 \end{array}$$

749 * 41

4529 * 89

$$\begin{array}{r}
 101110111101 \\
 \times \quad 101001 \\
 \hline
 101110111101 \\
 000000000000 \\
 + \quad 000000000000 \\
 101110111101 \\
 000000000000 \\
 101110111101 \\
 \hline
 1110011111110101
 \end{array}$$

$$\begin{array}{r}
 10001110110001 \\
 \times \quad 10111001 \\
 \hline
 10001110110001 \\
 00000000000000 \\
 + \quad 10001110110001 \\
 10001110110001 \\
 00000000000000 \\
 10001110110001 \\
 \hline
 1100010011001101
 \end{array}$$

3973 * 73

$$\begin{array}{r}
 1101111110101 \\
 \times \quad 1001001 \\
 \hline
 11011111010101 \\
 0000000000000 \\
 0000000000000 \\
 + \quad 110111110101 \\
 0000000000000 \\
 0000000000000 \\
 11011111010101 \\
 \hline
 111111110101101101
 \end{array}$$

4293 * 93

$$\begin{array}{r}
 10000110001001 \\
 \times \quad 10000110001001 \\
 \hline
 10000110001001 \\
 00000000000000 \\
 00000000000000 \\
 + \quad 10000110001001 \\
 1000011000100101 \\
 00000000000000 \\
 1000011000100101 \\
 \hline
 1100001000100101
 \end{array}$$

2897 * 33

$$\begin{array}{r}
 10111010101001 \\
 \times \quad 100001 \\
 \hline
 10111010101001 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 00000000000000 \\
 1011101010001001 \\
 \hline
 10111010101110001
 \end{array}$$

4569 * 65

$$\begin{array}{r}
 10000110001001 \\
 \times \quad 10000110001001 \\
 \hline
 10000110001001 \\
 00000000000000 \\
 00000000000000 \\
 + \quad 10000110001001 \\
 00000000000000 \\
 1000011000100101 \\
 \hline
 10010001000000011001
 \end{array}$$

5989 * 33

$$\begin{array}{r}
 10111010101001 \\
 \times \quad 100001 \\
 \hline
 10111010101001 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 1011101010001001 \\
 \hline
 1100001000100101
 \end{array}$$

6729 * 53

$$\begin{array}{r}
 110100010001001 \\
 \times \quad 100001 \\
 \hline
 110100010001001 \\
 00000000000000 \\
 + \quad 00000000000000 \\
 00000000000000 \\
 110100010001001 \\
 \hline
 11011000011011001
 \end{array}$$

845 * 21

$$\begin{array}{r}
 110100010001001 \\
 \times \quad 100001 \\
 \hline
 110100010001001 \\
 00000000000000 \\
 + \quad 110100010001001 \\
 110100010001001 \\
 \hline
 100010101010001
 \end{array}$$

8069 * 57

$$\begin{array}{r}
 11111100000101 \\
 \times \quad 111001 \\
 \hline
 11111100000101 \\
 10000000000000101 \\
 + \quad 11111100000101 \\
 11111100000101 \\
 11111100000101 \\
 111000001001001 \\
 \hline
 111000001001001
 \end{array}$$

7797 * 77

5545 * 77

$$\begin{array}{r}
 1111001110101 \\
 * \quad 100110101 \\
 \hline
 111110011010101 \\
 100000000000000 \\
 111100111010101 \\
 + \quad 111100111010101 \\
 000000000000000 \\
 000000000000000 \\
 111100111010101 \\
 \hline
 10010001001001001
 \end{array}$$

$$\begin{array}{r}
 1010110101001 \\
 * \quad 100110101001 \\
 \hline
 1010110101001 \\
 1010110101001 \\
 1010110101001 \\
 000000000000000 \\
 1010110101001 \\
 \hline
 1010100011010101
 \end{array}$$

7253 * 97

$$\begin{array}{r}
 11100001010101 \\
 * \quad 110000001 \\
 \hline
 11100001010101 \\
 000000000000000 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 11100001010101 \\
 11100001010101 \\
 \hline
 10101011110000001
 \end{array}$$

2333 * 97

$$\begin{array}{r}
 100100011001 \\
 * \quad 110000001 \\
 \hline
 100100011001 \\
 000000000000000 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 100100011001 \\
 100100011001 \\
 \hline
 11011100011111101
 \end{array}$$

169 * 49

$$\begin{array}{r}
 10101001 \\
 * \quad 1100001 \\
 \hline
 10101001 \\
 00000000 \\
 + \quad 00000000 \\
 00000000 \\
 10101001 \\
 10101001 \\
 \hline
 10000001011001
 \end{array}$$

4801 * 61

$$\begin{array}{r}
 1001011000001 \\
 * \quad 1111011 \\
 \hline
 1001011000001 \\
 000000000000000 \\
 + \quad 1001011000001 \\
 1001011000001 \\
 1001011000001 \\
 \hline
 10001110111111101
 \end{array}$$

2961 * 37

$$\begin{array}{r}
 1011110010001 \\
 * \quad 1001101 \\
 \hline
 1011110010001 \\
 000000000000000 \\
 + \quad 101110010001 \\
 000000000000000 \\
 101110010001 \\
 \hline
 1101010111110101
 \end{array}$$

629 * 81

$$\begin{array}{r}
 10011100101 \\
 * \quad 1010001 \\
 \hline
 10011100101 \\
 000000000000000 \\
 + \quad 10011100101 \\
 000000000000000 \\
 10011100101 \\
 \hline
 1100011100000101
 \end{array}$$

5689*47

$$\begin{array}{r}
 10111000110101 \\
 * \quad \quad \quad 1001101 \\
 \hline
 1011000110101 \\
 + 1011000110101 \\
 0000000000000 \\
 0000000000000 \\
 1011000110101 \\
 \hline
 110101011011110001
 \end{array}$$

3585*47

$$\begin{array}{r}
 111000000001 \\
 * \quad \quad \quad 110000000001 \\
 \hline
 1110000000000 \\
 + 0000000000000 \\
 1110000000000 \\
 1110000000001 \\
 \hline
 10101001100110001
 \end{array}$$

289*41

$$\begin{array}{r}
 10001101 \\
 * \quad \quad \quad 101001 \\
 \hline
 10001101 \\
 + 000000000 \\
 1000110101 \\
 1000000000 \\
 \hline
 1011011001
 \end{array}$$

3585*54

$$\begin{array}{r}
 111000000001 \\
 * \quad \quad \quad 111000000001 \\
 \hline
 1110000000000 \\
 + 0000000000000 \\
 1110000000001 \\
 1110000000001 \\
 \hline
 11000111100011001
 \end{array}$$

5644*49

$$\begin{array}{r}
 1110010000001 \\
 * \quad \quad \quad 110001 \\
 \hline
 1110010000001 \\
 + 0000000000000 \\
 0000000000000 \\
 1110010000001 \\
 1110010000001 \\
 \hline
 10101110100111001
 \end{array}$$

7861*57

$$\begin{array}{r}
 1111010110101 \\
 * \quad \quad \quad 1110000000000 \\
 \hline
 111101011010101 \\
 + 100000000000000 \\
 111101011010101 \\
 111101011010101 \\
 111101011010101 \\
 \hline
 11011010110011001
 \end{array}$$

3533*47

$$\begin{array}{r}
 110111001101 \\
 * \quad \quad \quad 110000001 \\
 \hline
 110111001101 \\
 + 000000000000 \\
 000000000000 \\
 110111001101 \\
 110111001101 \\
 \hline
 1010011101010101
 \end{array}$$

3341*65

$$\begin{array}{r}
 110100001101 \\
 * \quad \quad \quad 110000001101 \\
 \hline
 110100001101 \\
 + 000000000000 \\
 000000000000 \\
 110100001101 \\
 \hline
 1101010000001101
 \end{array}$$

8905 * 21

3213 * 89

$$\begin{array}{r}
 10001011001001 \\
 * \quad \quad 10101 \\
 \hline
 10001011001001 \\
 + 0000000000000 \\
 + 10001011001001 \\
 0000000000000 \\
 10001011001001 \\
 \hline
 10001011001001
 \end{array}$$

$$\begin{array}{r}
 110010201101 \\
 * \quad \quad 1010101 \\
 \hline
 110010201101 \\
 + 0000000000000 \\
 + 110010201101 \\
 110010201101 \\
 0000000000000 \\
 110010201101 \\
 \hline
 10001011001001
 \end{array}$$

3473 * 81

$$\begin{array}{r}
 111010111101 \\
 * \quad \quad 1010001 \\
 \hline
 111010111101 \\
 + 0000000000000 \\
 + 0000000000000 \\
 + 111010111101 \\
 0000000000000 \\
 111010111101 \\
 \hline
 100101010011001
 \end{array}$$

3897 * 49

$$\begin{array}{r}
 111101111101 \\
 * \quad \quad 110001 \\
 \hline
 111101111101 \\
 + 0000000000000 \\
 + 0000000000000 \\
 111101111101 \\
 1111001111001 \\
 \hline
 1011101010111001
 \end{array}$$

4161 * 13

$$\begin{array}{r}
 1000001000001 \\
 * \quad \quad 1101 \\
 \hline
 1000001000001 \\
 + 0000000000000 \\
 + 1000001000001 \\
 1000001000001 \\
 \hline
 1101001001001
 \end{array}$$

17 * 25

$$\begin{array}{r}
 10001 \\
 * \quad \quad 11001 \\
 \hline
 10001 \\
 00000 \\
 10001 \\
 10001 \\
 \hline
 110101001
 \end{array}$$

4781 * 61

$$\begin{array}{r}
 10010101010101 \\
 * \quad \quad 111101 \\
 \hline
 10010101010101 \\
 + 0000000000000 \\
 + 10010101010101 \\
 10010101010101 \\
 10010101010101 \\
 \hline
 1000110011001101
 \end{array}$$

169 * 33

$$\begin{array}{r}
 1010101001 \\
 * \quad \quad 100000000 \\
 \hline
 1010101001 \\
 000000000 \\
 1010101001 \\
 1010101001 \\
 \hline
 1010101001
 \end{array}$$

993 * 25

589 * 77

$$\begin{array}{r}
 11111000001 \\
 * 110001 \\
 \hline
 11111000001 \\
 + 10000000000 \\
 + 00000000000 \\
 + 11111000001 \\
 + 11111000001 \\
 \hline
 1100000011110001
 \end{array}$$

$$\begin{array}{r}
 1001001101 \\
 0000000000 \\
 0000000000 \\
 0000000000 \\
 1001001101 \\
 1001001101 \\
 \hline
 110111100101101
 \end{array}$$

7299 * 77

5363 * 41

$$\begin{array}{r}
 1110001010001 \\
 * 1001101 \\
 \hline
 1110001010001 \\
 + 1000000000000 \\
 + 1100001010001 \\
 + 1100001010001 \\
 + 0000000000000 \\
 + 0000000000000 \\
 + 1100001010001 \\
 \hline
 1000100001000101101
 \end{array}$$

$$\begin{array}{r}
 1010011110101 \\
 * 101001 \\
 \hline
 1010011110101 \\
 + 0000000000000 \\
 + 1010011110101 \\
 + 0000000000000 \\
 + 1010011110101 \\
 \hline
 110100110011001101
 \end{array}$$

6841 * 65

7465 * 21

$$\begin{array}{r}
 1100110001101 \\
 * 10000001 \\
 \hline
 1100110001101 \\
 + 0000000000000 \\
 + 0000000000000 \\
 + 0000000000000 \\
 + 1100110001101 \\
 \hline
 1100110001101
 \end{array}$$

$$\begin{array}{r}
 1110100101001 \\
 * 101001 \\
 \hline
 1110100101001 \\
 + 1000000000000 \\
 + 1110100101001 \\
 + 1110100101001 \\
 \hline
 1001100100001001
 \end{array}$$

7269 * 17

2109 * 49

$$\begin{array}{r}
 1110001100101 \\
 * 10000001 \\
 \hline
 1110001100101 \\
 + 0000000000000 \\
 + 0000000000000 \\
 + 1110001100101 \\
 \hline
 111100010010101
 \end{array}$$

$$\begin{array}{r}
 100000011101 \\
 * 110001 \\
 \hline
 100000011101 \\
 + 0000000000000 \\
 + 100000011101 \\
 + 100000011101 \\
 \hline
 11001001110101
 \end{array}$$

6525 * 43

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

5283 * 43

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

2417 * 41

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

8917 * 41

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

5245 * 41

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

8697 * 21

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

8917 * 49

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

5233 * 49

$$\begin{array}{r}
 11000100010000000000 \\
 + 10000000000000000000 \\
 \hline
 11000100010000000000
 \end{array}$$

6573 * 21

$$\begin{array}{r}
 11001110011001 \\
 X \quad 1001001 \\
 + \quad 1001001001001 \\
 00000000000000 \\
 110011001001001 \\
 \hline
 1001001001001001
 \end{array}$$

3693 * 31

$$\begin{array}{r}
 11100110011001 \\
 X \quad 1001001001001 \\
 + \quad 00000000000000 \\
 1001001001001001 \\
 00000000000000 \\
 1110011001001001 \\
 \hline
 1001001001001001
 \end{array}$$

2177 * 23

$$\begin{array}{r}
 10011100110011001 \\
 X \quad 10011100110011001 \\
 + \quad 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 \hline
 10011100110011001
 \end{array}$$

7433 * 73

$$\begin{array}{r}
 1111001100110011001 \\
 X \quad 10011100110011001 \\
 + \quad 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 \hline
 10011100110011001
 \end{array}$$

3845 * 17

$$\begin{array}{r}
 11111100110011001 \\
 X \quad 10011100110011001 \\
 + \quad 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 \hline
 10011100110011001
 \end{array}$$

7783 * 61

$$\begin{array}{r}
 11111100110011001 \\
 X \quad 10011100110011001 \\
 + \quad 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 \hline
 10011100110011001
 \end{array}$$

2509 * 9

$$\begin{array}{r}
 10011100110011001 \\
 X \quad 10011100110011001 \\
 + \quad 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 \hline
 10011100110011001
 \end{array}$$

8643 * 37

$$\begin{array}{r}
 11111100110011001 \\
 X \quad 10011100110011001 \\
 + \quad 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 10011100110011001 \\
 0000000000000000 \\
 10011100110011001 \\
 \hline
 10011100110011001
 \end{array}$$

8309 * 17

$$\begin{array}{r}
 \begin{array}{r} 10229000021108261 \\ \times \quad \quad \quad \quad 105881 \\ \hline 1000000001000001 \\ + \quad 000000000000000 \\ \quad 000000000000000 \\ \quad 1000000001000001 \\ \hline 1000000001000001
 \end{array}
 \end{array}$$

4015 * 29

$$\begin{array}{r}
 \begin{array}{r} 1111111111111111 \\ \times \quad \quad \quad \quad 1111111111111111 \\ \hline 1111111111111111 \\ + \quad 0000000000000000 \\ \quad 1111111111111111 \\ \quad 1111111111111111 \\ \hline 1111111111111111
 \end{array}
 \end{array}$$

53493

$$\begin{array}{r}
 \begin{array}{r} 11221181 \\ \times \quad \quad \quad \quad 11221181 \\ \hline 11220203 \\ + \quad 0000000 \\ \quad 11220203 \\ \quad 11220203 \\ \quad 0000000 \\ \quad 11220203 \\ \hline 1122118111220203
 \end{array}
 \end{array}$$

2473 * 29

$$\begin{array}{r}
 \begin{array}{r} 12221161082661 \\ \times \quad \quad \quad \quad 11221161 \\ \hline 1000120202001 \\ + \quad 00000000000000 \\ \quad 1000120202001 \\ \quad 1000120202001 \\ \hline 102221161082661
 \end{array}
 \end{array}$$

13749

$$\begin{array}{r}
 \begin{array}{r} 1000010001 \\ \times \quad \quad \quad \quad 100001 \\ \hline 1000010001 \\ + \quad 000000000 \\ \quad 000000000 \\ \quad 1000010001 \\ \hline 100001000100001
 \end{array}
 \end{array}$$

2544 * 29

$$\begin{array}{r}
 \begin{array}{r} 1000111111111111 \\ \times \quad \quad \quad \quad 1111111111111111 \\ \hline 1000111111111111 \\ + \quad 00000000000000 \\ \quad 1000111111111111 \\ \quad 1000111111111111 \\ \hline 111111000011111111
 \end{array}
 \end{array}$$

2065 * 85

$$\begin{array}{r}
 \begin{array}{r} 1000000000000000 \\ \times \quad \quad \quad \quad 1000000000000000 \\ \hline 1000000000000000 \\ + \quad 000000000000000 \\ \quad 1000000000000000 \\ \quad 000000000000000 \\ \quad 1000000000000000 \\ \quad 000000000000000 \\ \quad 1000000000000000 \\ \hline 101030101000101001
 \end{array}
 \end{array}$$

1745 * 25

$$\begin{array}{r}
 \begin{array}{r} 1101110100000000 \\ \times \quad \quad \quad \quad 1101110100000000 \\ \hline 1101110100000000 \\ + \quad 000000000000000 \\ \quad 1101110100000000 \\ \quad 1101110100000000 \\ \hline 101010101000101001
 \end{array}
 \end{array}$$

6947 * 21

6343 * 41

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 11111111111111111111 \\
 00000000000000000000 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 11111111111111111111 \\
 00000000000000000000 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

4453 * 73

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 00000000000000000000 \\
 00000000000000000000 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

8013 * 89

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 11111111111111111111 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

3905 * 53

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 11111111111111111111 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

8329 * 85

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 11111111111111111111 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

8331 * 73

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 00000000000000000000 \\
 00000000000000000000 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

2469 * 41

$$\begin{array}{r}
 11111111111111111111 \\
 \times \quad 11111111111111111111 \\
 \hline
 11111111111111111111 \\
 + \quad 11111111111111111111 \\
 11111111111111111111 \\
 \hline
 11111111111111111111
 \end{array}$$

521 * 97

2289 * 45

$$\begin{array}{r}
 1012000001 \\
 \times 1110001 \\
 \hline
 1010000001 \\
 0000000000 \\
 + 0000000000 \\
 1010000001 \\
 1010000001 \\
 \hline
 1000000001
 \end{array}$$

$$\begin{array}{r}
 10001110001 \\
 \times 1011001 \\
 \hline
 10001110001 \\
 0000000000 \\
 + 10001110001 \\
 10001110001 \\
 0000000000 \\
 10001110001 \\
 \hline
 11001001001001
 \end{array}$$

8509 * 41

7749 * 41

$$\begin{array}{r}
 10000100111101 \\
 \times 101001 \\
 \hline
 10000100111101 \\
 00000000000000 \\
 + 10000100111101 \\
 00000000000000 \\
 10000100111101 \\
 \hline
 101010101001000101
 \end{array}$$

$$\begin{array}{r}
 1111001000101 \\
 \times 101001 \\
 \hline
 1111001000101 \\
 00000000000000 \\
 + 1111001000101 \\
 00000000000000 \\
 1111001000101 \\
 \hline
 10011011001001
 \end{array}$$

4643 * 29

5633 * 5

$$\begin{array}{r}
 10010000100001 \\
 \times 111001 \\
 \hline
 10010000100001 \\
 00000000000000 \\
 + 10010000100001 \\
 10010000100001 \\
 10010000100001 \\
 \hline
 1000000110111101
 \end{array}$$

$$\begin{array}{r}
 1011000000001 \\
 \times 101100 \\
 \hline
 1011000000001 \\
 00000000000000 \\
 + 1011000000001 \\
 \hline
 110011000000101
 \end{array}$$

2989 * 81

1193 * 97

$$\begin{array}{r}
 100110111001 \\
 \times 1010001 \\
 \hline
 100110111001 \\
 000000000000 \\
 + 100110111001 \\
 000000000000 \\
 100110111001 \\
 \hline
 1100010000001
 \end{array}$$

$$\begin{array}{r}
 1001001001001 \\
 \times 110100 \\
 \hline
 1001001001001 \\
 000000000000 \\
 + 1001001001001 \\
 1001001001001 \\
 \hline
 1110000100001
 \end{array}$$

2745 * 69

$$\begin{array}{r}
 101010111001 \\
 * 100000000000 \\
 \hline
 101010111001 \\
 000000000000 \\
 000000000000 \\
 + 000000000000 \\
 000000000000 \\
 000000000000 \\
 101010111001 \\
 \hline
 101010111001
 \end{array}$$

5681 * 33

$$\begin{array}{r}
 10110001100001 \\
 * 100000000000 \\
 \hline
 10110001100001 \\
 00000000000000 \\
 + 00000000000000 \\
 00000000000000 \\
 10110001100001 \\
 \hline
 10110001100001
 \end{array}$$

1369 * 29

$$\begin{array}{r}
 101010111001 \\
 * 11101 \\
 \hline
 101010111001 \\
 000000000000 \\
 + 101010111001 \\
 101010111001 \\
 101010111001 \\
 101010111001 \\
 \hline
 100110110001001
 \end{array}$$

2541 * 41

$$\begin{array}{r}
 1001111101101 \\
 * 10000000000000 \\
 \hline
 1001111101101 \\
 00000000000000 \\
 + 1001111101101 \\
 00000000000000 \\
 1001111101101 \\
 \hline
 1100101101101101
 \end{array}$$

+33 * 37

$$\begin{array}{r}
 101101111001 \\
 * 10010101 \\
 \hline
 101101111001 \\
 000000000000 \\
 + 101101111001 \\
 000000000000 \\
 000000000000 \\
 101101111001 \\
 \hline
 110100111110001
 \end{array}$$

6657 * 97

$$\begin{array}{r}
 110100000000001 \\
 * 11000000000000 \\
 \hline
 110100000000001 \\
 000000000000000 \\
 + 110100000000001 \\
 000000000000000 \\
 110100000000001 \\
 \hline
 1001111011011001
 \end{array}$$

4381 * 41

$$\begin{array}{r}
 10001000111001 \\
 * 101001 \\
 \hline
 10001000111001 \\
 00000000000000 \\
 + 10001000111001 \\
 00000000000000 \\
 10001000111001 \\
 \hline
 10101111011001
 \end{array}$$

1933 * 53

$$\begin{array}{r}
 101111111101 \\
 * 110101 \\
 \hline
 101111111101 \\
 00000000000000 \\
 + 101111111101 \\
 00000000000000 \\
 101111111101 \\
 \hline
 100111110111001
 \end{array}$$

5837 * 75

3375 * 17

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

8301 * 69

5101 * 21

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

~~1010101010101010101~~

6929 * 85

8937 * 45

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

4921 * 57

3653 * 17

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

$$\begin{array}{r}
 1010101010101010101 \\
 + 1010101010101010101 \\
 \hline
 1010101010101010101
 \end{array}$$

2837 * 53

8843 * 13

$$\begin{array}{r}
 101100010101 \\
 + 101100010101 \\
 \hline
 101100010101 \\
 000000000000 \\
 + 101100010101 \\
 000000000000 \\
 101100010101 \\
 101100010101 \\
 101100010101 \\
 \hline
 101100010101
 \end{array}$$

$$\begin{array}{r}
 10001010001101 \\
 + 00000000000000 \\
 + 10001010001101 \\
 10001010001101 \\
 \hline
 1110000001001001
 \end{array}$$

3097 * 21

997 * 01

$$\begin{array}{r}
 10001001001 \\
 + 00000000000 \\
 + 10001001001 \\
 00000000000 \\
 10001001001 \\
 \hline
 10110011111101
 \end{array}$$

$$\begin{array}{r}
 11111100101 \\
 + 11111100101 \\
 + 11111100101 \\
 11111100101 \\
 11111100101 \\
 \hline
 111011011001001
 \end{array}$$

5097 * 77

3081 * 24

$$\begin{array}{r}
 10110001000001 \\
 + 00000000000000 \\
 + 10110001000001 \\
 00000000000000 \\
 00000000000000 \\
 10110001000001 \\
 \hline
 1101011000110001
 \end{array}$$

$$\begin{array}{r}
 110000001001 \\
 000000000000 \\
 + 110000001001 \\
 110000001001 \\
 110000001001 \\
 \hline
 101011101000101
 \end{array}$$

7627 * 37

6343 * 77

$$\begin{array}{r}
 11101111001101 \\
 + 11101111001101 \\
 00000000000000 \\
 + 11101111001101 \\
 00000000000000 \\
 11101111001101 \\
 \hline
 1000100100100001
 \end{array}$$

$$\begin{array}{r}
 10111111001101 \\
 + 10111111001101 \\
 00000000000000 \\
 + 10111111001101 \\
 00000000000000 \\
 00000000000000 \\
 10111111001101 \\
 \hline
 1110010100001001
 \end{array}$$

3863 * 13

$$\begin{array}{r}
 \frac{1}{x} \quad 1222222222222222 \\
 + 1000000000000000 \\
 1222200000000000 \\
 1222200000000000 \\
 \hline
 1100018801880188
 \end{array}$$

163 * 3

$$\begin{array}{r}
 1222222222222222 \\
 + 2020000000000000 \\
 2020000000000000 \\
 \hline
 11001880188
 \end{array}$$

5789 * 17

$$\begin{array}{r}
 \frac{1}{x} \quad 1222222222222222 \\
 + 1022200000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1022200000000000 \\
 \hline
 1100000000000000
 \end{array}$$

2935 * 69

$$\begin{array}{r}
 1222222222222222 \\
 + 1022200000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1022200000000000 \\
 \hline
 1100000000000000
 \end{array}$$

6237 * 85

$$\begin{array}{r}
 \frac{1}{x} \quad 1222222222222222 \\
 + 1222200000000000 \\
 0000000000000000 \\
 1222200000000000 \\
 0000000000000000 \\
 1222200000000000 \\
 \hline
 1100000000000000
 \end{array}$$

7521 * 65

$$\begin{array}{r}
 1222222222222222 \\
 + 1222200000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1222200000000000 \\
 \hline
 1100000000000000
 \end{array}$$

401 * 37

$$\begin{array}{r}
 \frac{1}{x} \quad 1222222222222222 \\
 + 1222200000000000 \\
 0000000000000000 \\
 1222200000000000 \\
 0000000000000000 \\
 1222200000000000 \\
 \hline
 1100000000000000
 \end{array}$$

33 * 89

$$\begin{array}{r}
 1222222222222222 \\
 + 1000000000000000 \\
 0000000000000000 \\
 + 1000000000000000 \\
 1000000000000000 \\
 0000000000000000 \\
 1000000000000000 \\
 \hline
 10110111111001
 \end{array}$$

7121 * 81

$$\begin{array}{r}
 11011111010001 \\
 * 1010001 \\
 \hline
 1101111010001 \\
 10000000000000 \\
 00000000000000 \\
 + 00000000000000 \\
 1101111010001 \\
 00000000000000 \\
 1101111010001 \\
 \hline
 10000000000000
 \end{array}$$

1281 * 93

$$\begin{array}{r}
 101000100001 \\
 * 10111101 \\
 \hline
 101000100001 \\
 1010000000001 \\
 1010000000001 \\
 1010000000001 \\
 1010000000001 \\
 1010000000001 \\
 1010000000001 \\
 \hline
 1110100010001
 \end{array}$$

7949 * 45

$$\begin{array}{r}
 11111100001101 \\
 * 101101 \\
 \hline
 11111100001101 \\
 00000000000000 \\
 + 11111100001101 \\
 11111100001101 \\
 00000000000000 \\
 11111100001101 \\
 \hline
 1011011101010101
 \end{array}$$

797 * 23

$$\begin{array}{r}
 1100011101 \\
 * 11101 \\
 \hline
 1100011101 \\
 0000000000 \\
 + 1100011101 \\
 1100011101 \\
 1100011101 \\
 \hline
 10110111010101
 \end{array}$$

33 * 65

$$\begin{array}{r}
 122701 \\
 * 3077101 \\
 \hline
 100001 \\
 000000 \\
 000000 \\
 + 000000 \\
 000000 \\
 100001 \\
 \hline
 100001
 \end{array}$$

1625 * 85

$$\begin{array}{r}
 12201011001 \\
 * 1410101 \\
 \hline
 11001011001 \\
 000000000000 \\
 + 11001011001 \\
 000000000000 \\
 11001011001 \\
 000000000000 \\
 11001011001 \\
 \hline
 10000111001
 \end{array}$$

6521 * 25

$$\begin{array}{r}
 1320010110001 \\
 * 11001 \\
 \hline
 110010110001 \\
 00000000000000 \\
 00000000000000 \\
 + 00000000000000 \\
 110010110001 \\
 00000000000000 \\
 110010110001 \\
 00000000000000 \\
 110010110001 \\
 \hline
 100110110011001
 \end{array}$$

217 * 9

$$\begin{array}{r}
 110111001 \\
 * 1001 \\
 \hline
 110111001 \\
 000000000 \\
 000000000 \\
 + 110111001 \\
 110111001 \\
 \hline
 111101001
 \end{array}$$

5389 * 17

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 + 11111111111111111 \\
 00000000000000000 \\
 00000000000000000 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

3797 * 53

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 + 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

7789 * 61

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 00000000000000000 \\
 + 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

1427 * 83

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 11111111111111111 \\
 + 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

369 * 77

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

8041 * 21

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 11111111111111111 \\
 + 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

1489 * 66

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 00000000000000000 \\
 + 00000000000000000 \\
 00000000000000000 \\
 00000000000000000 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

8507 * 53

$$\begin{array}{r}
 11111111111111111 \\
 \times 11111111111111111 \\
 \hline
 11111111111111111 \\
 11111111111111111 \\
 00000000000000000 \\
 + 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 11111111111111111 \\
 \hline
 11111111111111111
 \end{array}$$

1357 * 33

1037 * 85

$$\begin{array}{r}
 1010101001101 \\
 * 1000000000000 \\
 + 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 10101001101 \\
 \hline
 101011100110101
 \end{array}$$

$$\begin{array}{r}
 1010101001101 \\
 * 1000000000000 \\
 + 0000000000000 \\
 0000000000000 \\
 10000001101 \\
 00000000000 \\
 1000000000000 \\
 \hline
 101010100001101
 \end{array}$$

1349 * 17

4421 * 13

$$\begin{array}{r}
 10101010001101 \\
 * 1000000000000 \\
 + 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 101010001101 \\
 \hline
 101100110010101
 \end{array}$$

$$\begin{array}{r}
 10001010001101 \\
 * 0000000000000 \\
 + 10001010001101 \\
 10001010001101 \\
 \hline
 111000000100001
 \end{array}$$

1577 * 73

3265 * 45

$$\begin{array}{r}
 10101100001 \\
 00000000000 \\
 + 10101100001 \\
 00000000000 \\
 00000000000 \\
 10101100001 \\
 \hline
 11000100001
 \end{array}$$

$$\begin{array}{r}
 110011000001 \\
 0000000000000 \\
 + 110011000001 \\
 1100110000001 \\
 0000000000000 \\
 1100110000001 \\
 \hline
 1000011000001
 \end{array}$$

5925 * 33

6105 * 57

$$\begin{array}{r}
 10111001001101 \\
 * 1000000000000 \\
 + 0000000000000 \\
 0000000000000 \\
 0000000000000 \\
 10111001001101 \\
 \hline
 10111101001101
 \end{array}$$

$$\begin{array}{r}
 1101111011001 \\
 100000000000000 \\
 + 100000000000000 \\
 103111110110001 \\
 103111110110001 \\
 101111110110001 \\
 \hline
 10101001111010001
 \end{array}$$

1359 * 89

5541 * 61

$$\begin{array}{r} \text{1359 * 89} \\ \times \quad \text{1359 * 89} \\ \hline + \quad \text{1359 * 89 * 89} \\ \quad \quad \quad \text{1359 * 89 * 89} \\ \quad \quad \quad \text{1359 * 89 * 89} \\ \quad \quad \quad \text{1359 * 89 * 89} \\ \hline \text{1359 * 89 * 89 * 89} \end{array}$$

$$\begin{array}{r} \text{5541 * 61} \\ \times \quad \text{5541 * 61} \\ \hline + \quad \text{5541 * 61 * 61} \\ \quad \quad \quad \text{5541 * 61 * 61} \\ \quad \quad \quad \text{5541 * 61 * 61} \\ \quad \quad \quad \text{5541 * 61 * 61} \\ \hline \text{5541 * 61 * 61 * 61} \end{array}$$

4095 * 93

$$\begin{array}{r} \text{4095 * 93} \\ \times \quad \text{4095 * 93} \\ \hline + \quad \text{4095 * 93 * 93} \\ \quad \quad \quad \text{4095 * 93 * 93} \\ \quad \quad \quad \text{4095 * 93 * 93} \\ \quad \quad \quad \text{4095 * 93 * 93} \\ \hline \text{4095 * 93 * 93 * 93} \end{array}$$

8737 * 33

$$\begin{array}{r} \text{8737 * 33} \\ \times \quad \text{8737 * 33} \\ \hline + \quad \text{8737 * 33 * 33} \\ \quad \quad \quad \text{8737 * 33 * 33} \\ \quad \quad \quad \text{8737 * 33 * 33} \\ \hline \text{8737 * 33 * 33 * 33} \end{array}$$

4833 * 93

$$\begin{array}{r} \text{4833 * 93} \\ \times \quad \text{4833 * 93} \\ \hline + \quad \text{4833 * 93 * 93} \\ \quad \quad \quad \text{4833 * 93 * 93} \\ \quad \quad \quad \text{4833 * 93 * 93} \\ \quad \quad \quad \text{4833 * 93 * 93} \\ \hline \text{4833 * 93 * 93 * 93} \end{array}$$

5363 * 57

$$\begin{array}{r} \text{5363 * 57} \\ \times \quad \text{5363 * 57} \\ \hline + \quad \text{5363 * 57 * 57} \\ \quad \quad \quad \text{5363 * 57 * 57} \\ \quad \quad \quad \text{5363 * 57 * 57} \\ \hline \text{5363 * 57 * 57 * 57} \end{array}$$

1381 * 49

$$\begin{array}{r} \text{1381 * 49} \\ \times \quad \text{1381 * 49} \\ \hline + \quad \text{1381 * 49 * 49} \\ \quad \quad \quad \text{1381 * 49 * 49} \\ \quad \quad \quad \text{1381 * 49 * 49} \\ \quad \quad \quad \text{1381 * 49 * 49} \\ \hline \text{1381 * 49 * 49 * 49} \end{array}$$

6291 * 21

$$\begin{array}{r} \text{6291 * 21} \\ \times \quad \text{6291 * 21} \\ \hline + \quad \text{6291 * 21 * 21} \\ \quad \quad \quad \text{6291 * 21 * 21} \\ \quad \quad \quad \text{6291 * 21 * 21} \\ \hline \text{6291 * 21 * 21 * 21} \end{array}$$

3439 * 9

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

4080 * 85

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

2425 * 33

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1000000000000000 \\
 1000000000000000 \\
 1000000000000000 \\
 \hline
 1000000000000000
 \end{array}$$

5462 * 37

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 1010101010101010 \\
 1010101010101010 \\
 1010101010101010 \\
 \hline
 1010101010101010
 \end{array}$$

7369 * 45

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 1111111111111111 \\
 , 1111111111111111 \\
 0000000000000000 \\
 1111111111111111 \\
 \hline
 1111111111111111
 \end{array}$$

4697 * 33

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 1001001010101001 \\
 1001001010101001 \\
 1001001010101001 \\
 \hline
 1111111111111111
 \end{array}$$

8603 * 33

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 0000000000000000 \\
 1000000000000000 \\
 1000000000000000 \\
 \hline
 1000000000000000
 \end{array}$$

5817 * 29

$$\begin{array}{r}
 1111111111111111 \\
 \times \quad 1111111111111111 \\
 \hline
 1111111111111111 \\
 + \quad 1000000000000000 \\
 1011101010101001 \\
 1011101010101001 \\
 \hline
 1010101010101010
 \end{array}$$

5609 * 27

$$\begin{array}{r}
 121222222222222 \\
 \times \quad 1222222 \\
 \hline
 121222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 000000000000000 \\
 121222222222222 \\
 \hline
 101110010001111222
 \end{array}$$

3189 * 39

$$\begin{array}{r}
 122222222222222 \\
 \times \quad 1222222 \\
 \hline
 122222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 122222222222222 \\
 \hline
 120000000000000 \\
 120000000000000 \\
 120000000000000 \\
 \hline
 120000000000000
 \end{array}$$

120000000000000

3787 * 25

$$\begin{array}{r}
 122222222222222 \\
 \times \quad 1222222 \\
 \hline
 122222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 122222222222222 \\
 122222222222222 \\
 \hline
 101110011011100100
 \end{array}$$

8901 * 4

$$\begin{array}{r}
 122222222222222 \\
 \times \quad 1222222 \\
 \hline
 122222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 122222222222222 \\
 \hline
 100000000000000 \\
 100000000000000 \\
 100000000000000 \\
 \hline
 100000000000000
 \end{array}$$

7189 * 41

$$\begin{array}{r}
 122222222222222 \\
 \times \quad 1222222 \\
 \hline
 122222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 122222222222222 \\
 000000000000000 \\
 222222222222222 \\
 \hline
 100000000000000
 \end{array}$$

6121 * 33

$$\begin{array}{r}
 122222222222222 \\
 \times \quad 1222222 \\
 \hline
 122222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 122222222222222 \\
 \hline
 100000000000000
 \end{array}$$

2145 * 25

$$\begin{array}{r}
 122222222222222 \\
 \times \quad 1222222 \\
 \hline
 122222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 122222222222222 \\
 122222222222222 \\
 \hline
 120122222222222
 \end{array}$$

7877 * 35

$$\begin{array}{r}
 122222222222222 \\
 \times \quad 1222222 \\
 \hline
 122222222222222 \\
 + \quad 000000000000000 \\
 000000000000000 \\
 122222222222222 \\
 000000000000000 \\
 122222222222222 \\
 \hline
 101000000000000
 \end{array}$$

2829 * 29

8657 * 53

$$\begin{array}{r} 1011000000000 \\ * \quad 11000 \\ 1011000000000 \\ 000000000000 \\ + \quad 000000000000 \\ 1011000000000 \\ 1011000000000 \\ \hline 1011000000000 \end{array}$$

$$\begin{array}{r} 1011000000000 \\ * \quad 11000 \\ 1011000000000 \\ 0000000000000 \\ + \quad 1000000000000 \\ 1011000000000 \\ 1000000000000 \\ 1000000000000 \\ \hline 1110000000000 \end{array}$$

3209 * 41

$$\begin{array}{r} 1100000000000 \\ * \quad 1010000000000 \\ 1100000000000 \\ 0000000000000 \\ + \quad 0000000000000 \\ 1100000000000 \\ 0000000000000 \\ 1100000000000 \\ \hline 1000000000000 \end{array}$$

5937 * 69

$$\begin{array}{r} 1011000000000 \\ * \quad 1000000000000 \\ 1011000000000 \\ 1000000000000 \\ + \quad 1011000000000 \\ 1011000000000 \\ 0000000000000 \\ 0000000000000 \\ 1011000000000 \\ \hline 1000000000000 \end{array}$$

8554 #24

$$\begin{array}{r}
 1228787191117201 \\
 - A \\
 \hline
 10000001011111111111 \\
 + 10000000000000000000 \\
 \hline
 10303822131080000001
 \end{array}$$

Sous le soleil

8337 * 93

885 A 57

$$\begin{array}{r}
 \text{X} \ 2 2 2 2 2 2 2 2 2 \\
 \text{X} \quad 2 2 2 2 2 2 2 2 \\
 \hline
 1 1 0 1 1 1 0 1 0 1 \\
 0 0 0 0 0 0 0 0 0 0 \\
 + \quad 0 0 0 0 0 0 0 0 0 \\
 1 2 0 1 1 1 1 0 1 0 1 \\
 1 3 0 1 1 1 1 0 1 0 1 \\
 \hline
 1 4 0 1 1 1 1 0 1 0 1
 \end{array}$$

5685 * 37

$$\begin{array}{r}
 1282210888238162 \\
 + 1221881 \\
 \hline
 1011000120202 \\
 00000000000000 \\
 + 00000000000000 \\
 \hline
 10120001210101 \\
 10120001210101 \\
 10120001210101 \\
 \hline
 128221110888121881164
 \end{array}$$

7-157 * 33

$$\begin{array}{r}
 & 3 \cdot 2 \cdot 2 \cdot 2 \cdot 1 \cdot 0 \cdot 2 \cdot 2 \cdot 2 \\
 & \times \quad 1 \cdot 2 \cdot 2 \cdot 0 \cdot 2 \cdot 1 \\
 \hline
 & 2 \cdot 2 \cdot 0 \cdot 1 \cdot 0 \cdot 0 \cdot 2 \cdot 0 \cdot 0 \cdot 1 \\
 & 0 \cdot 0 \\
 + & 0 \cdot 0 \\
 & 0 \cdot 0 \\
 & 2 \cdot 2 \cdot 2 \cdot 0 \cdot 1 \cdot 0 \cdot 0 \cdot 2 \cdot 0 \cdot 0 \cdot 1 \\
 \hline
 & 3 \cdot 2 \cdot 2 \cdot 1 \cdot 0 \cdot 0 \cdot 2 \cdot 0 \cdot 0 \cdot 0 \cdot 2
 \end{array}$$

6793 * 34

三十六

~~202222220001~~
~~202222220001~~
+ ~~202222220001~~

~~404444440002~~
~~404444440002~~
+ ~~404444440002~~

~~808888880004~~
~~808888880004~~

5013 x 9

$$\begin{array}{r}
 10011111110100000 \\
 + 000000000000000 \\
 000000000000000 \\
 1001111010001 \\
 \hline
 100111110010001
 \end{array}$$

5565 x 45

$$\begin{array}{r}
 10011111110100000 \\
 + 000000000000000 \\
 000000000000000 \\
 1001111010001 \\
 \hline
 100111110010001
 \end{array}$$

7665 x 91

$$\begin{array}{r}
 10011111110100000 \\
 + 000000000000000 \\
 000000000000000 \\
 100111110001 \\
 0000000000000 \\
 100111110001 \\
 \hline
 10011111110100000
 \end{array}$$

2325 x 11

$$\begin{array}{r}
 10011111110100000 \\
 + 0001000101000 \\
 000000000000000 \\
 1001000101000 \\
 000000000000000 \\
 000000000000000 \\
 1001000101000 \\
 \hline
 10010011011010000
 \end{array}$$

4773 x 57

$$\begin{array}{r}
 10011111110100000 \\
 + 000000000000000 \\
 000000000000000 \\
 100111110001 \\
 000100010001 \\
 000100010001 \\
 \hline
 10011111110100000
 \end{array}$$

7177 x 81

$$\begin{array}{r}
 10011111110100000 \\
 + 000000000000000 \\
 000000000000000 \\
 10011111110100000 \\
 000000000000000 \\
 10011111110100000 \\
 000000000000000 \\
 10011111110100000 \\
 \hline
 10011111110100000
 \end{array}$$

621 x 65

$$\begin{array}{r}
 10011111110100000 \\
 + 000000000000000 \\
 000000000000000 \\
 100111110001 \\
 000000000000000 \\
 100111110001 \\
 \hline
 10011111110100000
 \end{array}$$

10001101110100000