



Name:

Date:

Section:

Grade:

2.0 Arithmetic

2.1 Instruction: Perform arithmetic operations on the following **Binary numbers**.

$$\begin{array}{r} 10 \ 1010 \\ + \ 1 \ 0101 \\ \hline 11 \ 1111 \end{array}$$

$$\begin{array}{r} 10 \ 1011 \\ + \ 101 \\ \hline 11 \ 0000 \end{array}$$

$$\begin{array}{r} 11 \ 0101 \\ + \ 1011 \\ \hline 100 \ 0000 \end{array}$$

$$\begin{array}{r} 11 \ 1001 \\ + \ 1111 \\ \hline 100 \ 1000 \end{array}$$

$$\begin{array}{r} 11 \ 0101 \\ - \ 1 \ 0101 \\ \hline 10 \ 0000 \end{array}$$

$$\begin{array}{r} 1101 \\ - \ 1 \ 1001 \\ \hline 1 \ 0100 \end{array}$$

$$\begin{array}{r} 1101 \\ - \ 1001 \\ \hline 1 \ 1011 \end{array}$$

$$\begin{array}{r} 1101 \\ - \ 1 \ 1011 \\ \hline 101 \end{array}$$

$$\begin{array}{r} 10 \ 1101 \\ \times \ 11 \\ \hline 10 \ 1101 \\ + \ 101 \ 101 \\ \hline 1000 \ 0111 \end{array}$$

$$\begin{array}{r} 1 \ 0011 \\ \times \ 101 \\ \hline 1 \ 0011 \\ + \ 100 \ 11 \\ \hline 101 \ 1111 \end{array}$$

$$\begin{array}{r} 1 \ 0101 \\ \times \ 1010 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 1 \ 0011 \\ \times \ 1101 \\ \hline 1 \ 0011 \\ + \ 100 \ 11 \\ \hline 1111 \ 0111 \end{array}$$

$$\begin{array}{r} 10010 \\ 11 \overline{) 110110} \\ - \ 11 \\ \hline 00 \\ - \ 0 \\ \hline 01 \\ \hline 0 \\ \hline 11 \\ \hline 11 \\ \hline 00 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 10010 \\ 101 \overline{) 1011011} \\ - \ 101 \\ \hline 01 \\ - \ 0 \\ \hline 10 \\ \hline 01 \\ \hline 0 \\ \hline 10 \\ \hline 01 \\ \hline 0 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 111 \\ 1100 \overline{) 1010101} \\ - \ 1100 \\ \hline 10010 \\ - \ 1100 \\ \hline 01101 \\ \hline 1100 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 1010 \\ 1011 \overline{) 1101111} \\ - \ 1011 \\ \hline 1011 \\ - \ 1011 \\ \hline 01 \\ \hline 0 \\ \hline 1 \end{array}$$

2.2 Instruction: Perform arithmetic operations on the following Octal numbers.

$\begin{array}{r} 2645 \\ + 5702 \\ \hline \end{array}$	$\begin{array}{r} 7\ 6543 \\ + 1335 \\ \hline \end{array}$	$\begin{array}{r} 2\ 2241 \\ - 1340 \\ \hline 2\ 0701 \end{array}$	$\begin{array}{r} 23\ 4526 \\ - 3\ 5617 \\ \hline 17\ 6707 \end{array}$
$\begin{array}{r} 323 \\ \times 24 \\ \hline 1514 \\ + 646 \\ \hline 10174 \end{array}$	$\begin{array}{r} 717 \\ \times 1154 \\ \hline 3474 \\ 4413 \\ + 717 \\ \hline 141524 \end{array}$	$\begin{array}{r} 45 \\ 23 \overline{) 1277} \\ - 114 \\ \hline 137 \\ - 137 \\ \hline 0 \end{array}$	$\begin{array}{r} 302 \\ 51 \overline{) 1\ 7427} \\ - 1\ 73 \\ \hline 127 \\ - 122 \\ \hline r\ 5 \end{array}$

2.3 Instruction: Perform arithmetic operations on the following Hexadecimal numbers.

$\begin{array}{r} A384 \\ + B675 \\ \hline 159F9 \end{array}$	$\begin{array}{r} 1\ 11 \\ 2\ D5A9 \\ + 3457 \\ \hline 30A00 \end{array}$	$\begin{array}{r} AB\ C123 \\ - 5\ D032 \\ \hline A5\ F0F1 \end{array}$	$\begin{array}{r} B\ A4C5 \\ - 4\ BEEF \\ \hline 6\ E5D6 \end{array}$
$\begin{array}{r} 9F \\ \times 11A \\ \hline 636 \\ + 9F \\ \hline 1026 \end{array}$	$\begin{array}{r} 36A \\ \times 123 \\ \hline 2A3E \\ 6D4 \\ + 36A \\ \hline 3E17E \end{array}$	$\begin{array}{r} 35 \\ A \overline{) 212} \\ - 1E \\ \hline 32 \\ - 32 \\ \hline 0 \end{array}$	$\begin{array}{r} 7C \\ 16 \overline{) ABC} \\ - 9A \\ \hline 11C \\ - 108 \\ \hline r\ 14 \end{array}$