## **Request Message**

Operation Code	Operand A	Operand B
1 bytes	4 bytes	4 bytes
	(unsigned integer)	(unsigned integer)
'+' = 0x2b (43)		
'- $'$ = 0x2d (45)		
'x' = 0x78 (120)		
'/' = 0x2f(47)		

- The total request message length will always be nine bytes.
- Each operand is an unsigned 32-bit integer.
- The standard UTF-8 character values are used to convert the operation code into a hex value (decimal equivalent given in parenthesis).

## **Response Message**

Operation	Operand A	Operand B	Answer	Is Answer
Code				Valid
1 bytes	4 bytes	4 bytes	4 bytes	1 byte
	(unsigned	(unsigned	(unsigned	
'+' = 0x2b (43)	integer)	integer)	integer)	1 – Valid
'- $'$ = 0x2d (45)				2 – Invalid
'x' = 0x78 (120)				(NaN
'/' = 0x2f(47)				result)

- The total response message length will always be fourteen bytes.
- The result is an unsigned 32-bit integer.
- Is Answer Valid will take care of NaN / divide by zero situations. (If the answer is invalid, the answer field should be set to 0).
- The answer is unsigned, because the operands were specified as unsigned in the specifications for the lab. Please see (<a href="http://stackoverflow.com/questions/7221409/is-unsigned-integer-subtraction-defined-behavior">http://stackoverflow.com/questions/7221409/is-unsigned-integer-subtraction-defined-behavior</a>) for more information on possible implications of unsigned arithmetic.