N	a	r	n	ρ	•
	u			·	•

You must show work to receive credit. The ASCII table is on the back of this worksheet.

- 1. How many bits doe the following ASCII phrase have: "You are awesome!"
- 2. How many BYTES does the phrase from question 1 have?
- 3. Using the ASCII table, convert your first name to bits. Use the format of 8 bits for every character.

4. Now convert your first name to hexadecimal.

	Dec Hx Oct	Html Ch	hr Dec	Hx Oct	Html Chr	Dec Hx	Oct Html Chr
	32 20 040		pace 64		«#64; 0		140 6#96;
	33 21 041	%#32; !	.		«#65; A		141 6#97; 8
	34 22 042	«#34; "			«#66; Β		142 6#98; b
	35 23 043	6#35; #	1		a#67; €		143 6#99; C
	36 24 044		1		6#68; D		144 6#100; d
	37 25 045	a#37; %			€#69; E		145 @#101; e
	38 26 046	a#38; €			6#70; F		146 6#102; f
	39 27 047	6#39; '			€#71; G		147 @#103; g
	40 28 050	a#40; (72		6#72; H	104 68	150 a#104; h
	41 29 051))	73	49 111	6#73; I	105 69	151 i i
ne)	42 2A 052	* *	74	4A 112	€#74; J	106 6A	152 @#106; j
	43 2B 053	6#43; +	75	4B 113	€#75; K	107 6B	153 @#107; k
ge)	44 2C 054	, ,	76	4C 114	€#76; L	108 6C	154 @#108; <mark>l</mark>
_	45 2D 055	- -	77	4D 115	€#77; M	109 6D	155 m 🍱
	46 2E 056	. .	78	4E 116	N N	110 6E	156 n n
N	47 2F 057	6#47; /	79		O <mark>0</mark>	111 6F	157 o 0
. 1	48 30 060	6#48; 0	80	50 120	P ₽	112 70	160 p p
6.1	49 31 061	6#49; 1			⊊#81; Q	113 71	161 @#113; q
	50 32 062	6#50; 2	82		R R		162 @#114; r
J	51 33 063	3 3			∉#83; S		163 s 3
V	52 34 064			54 124			164 @#116; t
)	53 35 065	5 5			U Ŭ		165 u u
	54 36 066	 4 ; 6			V ₹		166 v ♥
	55 37 067	a#55; 7			W ₩	119 77	167 w W
	56 38 070	8 8			€#88; X	120 78	170 x X
	57 39 071	9 9			€#89; Y		171 y Y
	58 3A 072	: :	1		6#90; Z		172 z Z
	59 3B 073	6#59;;	1		6#91; [173 { {
		< <	1		6#92; \	124 7C	174 6#124;
	61 3D 075	= =			6#93;] 6#94: ^	125 7D	175 6#125; }
	62 3E 076	6#62; >			WW 2 -17	126 7E	176 ~ ~
	63 3F 077	? ?	95	5F 137	_		177 DEL
					Sourc	e: www.	.LookupTables.com

_	Write out the algorithm or instructions in step by step format to convert a binary number to
٦.	decimal.
6.	Write out the algorithm or instructions in step by step format to convert a decimal number to
	binary.
7.	Write out the algorithm or instructions in step by step format to convert an ASCII character to
	binary.