Convert the following numbers from base 10 into base 2

127 _____

13 _____

64 _____

7 _____

75 _____

99 _____

128 _____

255 _____

Convert from base 2 to base 10

1110 0001 _____

0001 0101 _____

0101 1000 _____

0010 1111 _____

1001 0100 _____

0001 1111 _____

0000 1000 _____

0010 1001 _____

Google search the term "ASCII Table" and find the table that you saw in the video last week. Use the table to fill in the following blanks:

Character	Decimal Number	Binary Number
A	65	
	97	1100001
		110000
m		

Label the method below with the following terms:

1) method name
2) parameters
3) return type
4) body

```
void recursiveCircle(int x, int y, int size)
{
      if(size>2)
      {
            ellipse(x,y,size,size);
            recursiveCircle(x-s/2,y,s/2);
      }
}
```

Convert the following numbers from base 10 into base 2

21 _____ 47 _____

119 _____ 178 _____

Convert from base 2 to base 10

0000 1001 _____ 1001 1001 _____

0110 1011 _____ 1010 1010 _____

Convert from base 16 to base 10

C4 _____ 13B _____

Use the ASCII table to fill in the following blanks:

Character	Decimal Number	Binary Number
Z		
	33	

Fill in the chart for the following data types:

Data Type	What it stores:	# of Bits	Example

New Processing Methods:

Name:	Description

Convert the following numbers from base 10 into base 2

9 _____ 55 _____

100 _____ 250 _____

Convert from base 2 to base 10

0000 1111 _____ 0011 1101 _____

0110 1001 _____ 1001 0011 _____

Convert from base 16 to base 10

3E _____ A07 _____

Use the ASCII table to fill in the following blanks:

Character	Decimal Number	Binary Number
A		
		1100001
	70