

Base Conversion Worksheet

Name: _____ Date: _____

Subject: Mathematics – Number Systems

Topic: Converting Between Base 10 and Base 2

Time: 45–60 minutes

Instructions:

1. Carefully solve each problem.
2. Show all your working steps.
3. Write your final answers clearly in the spaces provided.

Section A: Convert from Base 10 to Base 2

#	Base 10 Number	Binary (Base 2)
1	12	_____
2	25	_____
3	37	_____
4	45	_____
5	58	_____
6	73	_____
7	96	_____
8	104	_____
9	121	_____
10	255	_____

Section B: Convert from Base 2 to Base 10

#	Binary (Base 2)	Base 10 Number
1	1010	_____
2	11001	_____

3	100101	_____
4	111000	_____
5	1010110	_____
6	1100101	_____
7	10000011	_____
8	10101000	_____
9	1111100	_____
10	100000000	_____