

Name: _____

Computer Data Representations

Exploring CS, Period: _____

Sept. 19th, 2011

Warm Up: How do you think information (numbers, text, images, etc.) stored in a Computer?

Computer Data Representation:

(Images: © 2005 Computer Science Unplugged (www.unplugged.canterbury.ac.nz) for classroom use only.)

1. Convert these Binary Numbers to Decimal:

Binary	Decimal
a) 00001	_____
b) 10000	_____
c) 10101	_____
d) 11111	_____
e) 01101	_____

2. What are these Binary encoded numbers in Decimal?

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(=1, =0)

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(↑=1, ↓=0)

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(⊙=1, ○=0)

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(▲=1, ▼=0)

♠ ♠ ♠ ♠ ♠ =
(♠=1, ♣=0)

3. Convert these Decimal Numbers to Binary:

Decimal	Binary
a) 2	_____
b) 16	_____
c) 17	_____
d) 25	_____
e) 31	_____

