

Name \_\_\_\_\_

Date \_\_\_\_\_

## Base 2: Binary

$2^8$	$2^7$	$2^6$	$2^5$	$2^4$	$2^3$	$2^2$	$2^1$	$2^0$

Write each Base-10 number in Base-2 (binary):

5 =

12 =

37 =

52 =

75 =

100 =

250 =

408 =

499 =

Write each Base-2 (binary) number in Base-10:

101 =

1101 =

11110 =

10011 =

110011 =

1010101 =

1100111 =

11111111 =

10100010 =

Solve each Base-2 (binary) problem. Write the answer in Base-10.

$1001 + 1100 =$

$1101 + 111 =$

$11001 + 11100 =$

$101110 - 10011 =$

$1111101 - 100 =$

$1110000 - 101110 =$

3123 (Base-4) =

532 (Base-6) =

8154 (Base-9) =