

## Converting and Adding Numbers Answers

### Binary to Denary Conversions

1.  $00000011 = 2 + 1 = 3$
2.  $00000101 = 4 + 1 = 5$
3.  $00010100 = 16 + 4 = 20$
4.  $10010100 = 128 + 16 + 4 = 148$
5.  $00101100 = 32 + 8 + 4 = 44$
6.  $01010101 = 64 + 16 + 4 + 1 = 85$

### Denary to Binary Conversions

1.  $32 = 00100000$
2.  $68 = 64 + 4 = 01000100$
3.  $43 = 32 + 8 + 2 + 1 = 00101011$
4.  $129 = 128 + 1 = 10000001$
5.  $19 = 16 + 2 + 1 = 00010011$
6.  $93 = 64 + 16 + 8 + 4 + 1 = 01011101$
7.  $148 = 128 + 16 + 4 = 10010100$

### Binary Addition Answers

1. 101101
2. 1000101
3. 1111010
4. 101011010
5. 111011111