

## Round 1 - Image - 9 - Using Binary

|               |                 |                 |                 |                 |                      |
|---------------|-----------------|-----------------|-----------------|-----------------|----------------------|
| <u>Row 1:</u> | 255<br>14<br>13 | 255<br>14<br>13 | 255<br>14<br>13 | 255<br>14<br>13 |                      |
|               |                 |                 |                 |                 | <u>Hidden values</u> |
|               |                 |                 |                 |                 | (Row 1)              |

|     |     |   |           |   |           |   |     |
|-----|-----|---|-----------|---|-----------|---|-----|
| R : | 255 | → | 1111 1111 | → | 1111 0000 | → | 240 |
| G : | 14  | → | 0000 1110 | → | 1110 0000 | → | 224 |
| B : | 13  | → | 0000 1101 | → | 1101 0000 | → | 208 |

## Round 2 - using Hexadecimal (2nd row)

|     |     |   |           |   |           |   |     |
|-----|-----|---|-----------|---|-----------|---|-----|
| R : | 15  | : | 0000 1111 | → | 1111 0000 | → | 240 |
| G : | 254 | : | 1111 1110 | → | 1110 0000 | → | 224 |
| B : | 13  | : | 0000 1101 | → | 1101 0000 | → | 208 |
|     |     |   |           |   |           |   |     |
| R : | 11  | : | 0000 1011 | → | 1011 0000 | → | 176 |
| G : | 248 | : | 1111 1000 | → | 1000 0000 | → | 128 |
| B : | 1   | : | 0000 0001 | → | 0001 0000 | → | 16  |



# Round 3 (continuing using Hexadecimals)

## Row: 3

R: 15  $\rightarrow$  OF  $\rightarrow$  F0  $\rightarrow$  240 | 15  $\rightarrow (x \% 16) \times 16 = 15 \times 16 = 240$   
 Q: 14  $\rightarrow$  OE  $\rightarrow$  E0  $\rightarrow$  224 | 14  $\rightarrow 14 \times 16 = 224$   
 P: 13  $\rightarrow$  Fd  $\rightarrow$  d0  $\rightarrow$  208 | 13  $\rightarrow 13 \times 16 = 208$

Formula:  $(x \% 16) \times 16$

## Row 4

255  $\rightarrow$  240

254  $\rightarrow$  224

13  $\rightarrow$  208

251  $\rightarrow$  Fb  $\rightarrow$  b0  $\rightarrow$  176

248  $\rightarrow$  F8  $\rightarrow$  80  $\rightarrow$  128

1  $\rightarrow$  16  $\rightarrow$  16  $\rightarrow$  16

## Now table

|     |     |     |     |
|-----|-----|-----|-----|
| 240 | 240 | 240 | 240 |
| 224 | 224 | 224 | 224 |
| 208 | 208 | 208 | 208 |
| 240 | 176 | 176 | 240 |
| 224 | 128 | 128 | 224 |
| 208 | 16  | 16  | 208 |
| 240 | 240 | 240 | 240 |
| 224 | 224 | 224 | 224 |
| 208 | 208 | 208 | 208 |
| 240 | 176 | 176 | 176 |
| 224 | 128 | 128 | 128 |
| 208 | 16  | 16  | 16  |

Letter: P

From Excel