Practical 9

Worksheet

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Part 2:

Binary Compression

<u>1.</u>

40 bits

<u>2</u>.

32 bits

Compression ratio: 32/40 = 80%

Bits in 4runsrle.bin:

32 bits

ASCII Compression

<u>1.</u>

96 bits

2.

416 bits

Compression ratio: 416/96 = 433.33%

This occurs because there is very rarely long runs in the English language.

Bitmap compression:

<u>1.</u>

1536 bits

Compressed:

1144 bits

Compression ratio: 1144/1536 = 74.5%

<u>2.</u>

6144 bits

Compressed:

2296 bits

Compression ratio: 2296/6114 = 37.55%

For larger bitmaps we save more space because the long runs are much longer