Started on	Thursday, 3 October 2019, 2:49 PM
State	Finished
Completed on	Thursday, 3 October 2019, 3:10 PM
Time taken	20 mins 47 secs
Grade	**20.00** out of 20.00 (**100**%)

Question 1

Correct

Mark 1.00 out of 1.00

Convert **126** from decimal to 8-bit binary.

Answer: 01111110 ✔

The correct answer is: 01111110

Question 2

Correct

Mark 1.00 out of 1.00

Convert **225** from decimal to 8-bit binary.

Answer: 11100001 ✔

The correct answer is: 11100001

Question 3

Correct

Mark 1.00 out of 1.00

Convert **226** from decimal to 8-bit binary.

Answer: 11100010 ✔

The correct answer is: 11100010

Question 4

Correct

Mark 1.00 out of 1.00

Convert **243** from decimal to 8-bit binary.

Answer: 11110011 ✔

The correct answer is: 11110011

Question 5

Correct

Mark 1.00 out of 1.00

Convert **60** from decimal to 8-bit binary.

Answer: 00111100 ✔

The correct answer is: 00111100

Question 6

Correct

Mark 1.00 out of 1.00

Convert **01010111** from 8-bit binary to decimal.

Answer: 87 ✔

The correct answer is: 87

Question 7

Correct

Mark 1.00 out of 1.00

Convert **01001101** from 8-bit binary to decimal.

Answer: 77 ✔

The correct answer is: 77

Question 8

Correct

Mark 1.00 out of 1.00

Convert **01011100** from 8-bit binary to decimal.

Answer: 92 ✔

The correct answer is: 92

Question 9

Correct

Mark 1.00 out of 1.00

Convert **10111011** from 8-bit binary to decimal.

Answer: 187 ✔

The correct answer is: 187

Question 10

Correct

Mark 1.00 out of 1.00

Convert **10000001** from 8-bit binary to decimal.

Answer: 129 ✔

The correct answer is: 129

Question 11

Correct

Mark 1.00 out of 1.00

Calculating 67 + 105

Convert 67 to 8-bit binary: 01000011 ✔

Convert 105 to 8-bit binary: 01101001 ✔

Add these two numbers together: 10101100 ✔

Convert your answer from binary to decimal: 172 ✔

Question 12

Correct

Mark 1.00 out of 1.00

Calculating 90 + 24

Convert 90 to 8-bit binary: 01011010 ✔

Convert 24 to 8-bit binary: 00011000 ✔

Add these two numbers together: 01110010 ✔

Convert your answer from binary to decimal: 114 ✔

Question 13

Correct

Mark 1.00 out of 1.00

Calculating 98 + 91

Convert 98 to 8-bit binary: 01100010 ✔

Convert 91 to 8-bit binary: 01011011 ✔

Add these two numbers together: 10111101 ✔

Convert your answer from binary to decimal: 189 ✔

Question 14

Correct

Mark 1.00 out of 1.00

Calculating 49 + 14

Convert 49 to 8-bit binary: 00110001 ✔

Convert 14 to 8-bit binary: 00001110 ✔

Add these two numbers together: 00111111 ✔

Convert your answer from binary to decimal: 63 ✔

Question 15

Correct

Mark 1.00 out of 1.00

Calculating 21 + 7

Convert 21 to 8-bit binary: 00010101 ✔

Convert 7 to 8-bit binary: 00000111 ✔

Add these two numbers together: 00011100 ✔

Convert your answer from binary to decimal: 28 ✔

Question 16

Correct

Mark 1.00 out of 1.00

Calculating 82 - 5

Convert 82 to 8-bit binary: 01010010 ✔

Convert 5 to 8-bit binary: 00000101 ✔

Express -5 in 2's complement 8-bit binary: 11111011 ✔

Add the binary representations of 82 and -5 together: 01001101 ✔

Convert your answer from 2's complement binary to decimal: 77 ✔

Question 17

Correct

Mark 1.00 out of 1.00

Calculating 76 - 50

Convert 76 to 8-bit binary: 01001100 ✔

Convert 50 to 8-bit binary: 00110010 ✔

Express -50 in 2's complement 8-bit binary: 11001110 ✔

Add the binary representations of 76 and -50 together: 00011010 ✔

Convert your answer from 2's complement binary to decimal: 26 ✔

Question 18

Correct

Mark 1.00 out of 1.00

Calculating 31 - 76

Convert 31 to 8-bit binary: 00011111 ✔

Convert 76 to 8-bit binary: 01001100 ✔

Express -76 in 2's complement 8-bit binary: 10110100 ✔

Add the binary representations of 31 and -76 together: 11010011 ✔

Convert your answer from 2's complement binary to decimal: -45 ✔

Question 19

Correct

Mark 1.00 out of 1.00

Calculating 87 - 113

Convert 87 to 8-bit binary: 01010111 ✔

Convert 113 to 8-bit binary: 01110001 ✔

Express -113 in 2's complement 8-bit binary: 10001111 ✔

Add the binary representations of 87 and -113 together: 11100110 ✔

Convert your answer from 2's complement binary to decimal: -26 ✔

Question 20

Correct

Mark 1.00 out of 1.00

Calculating 65 - 65

Convert 65 to 8-bit binary: 01000001 ✔

Express -65 in 2's complement 8-bit binary: 10111111 ✔

Add the binary representations of 65 and -65 together: 00000000 ✔

Convert your answer from 2's complement binary to decimal: 0 ✔