Created 11/25/14; edited 05/30/15

on Binary Fractions (Part 2)

Instructions: For each question, choose the single best answer. Make your choice by clicking on its button. You can change your answers at any time. When the quiz is graded, the correct answers will appear in the box after each question.

1. Express 5 + 0/2 + 1/4 + 0/8 + 1/16 using base 2 positional notation.

- **A.** 5.0110
- **B.** 101.0101
- **C.** 101.101
- **D.** 111.0101

B

2. Express 110.1001_2 as a sum of decimal integers and fractions

- **A.** 4 + 2 + 1/2 + 1/16
- **B.** 4 + 2 + 1/2 + 1/32
- **C.** 4 + 2 + 1/4 + 1/16
- **D.** 6 + 3/16

A

3. Express 1001.1011_2 as a sum of a single decimal integer and a single decimal fraction.

- **A.** 10 + 11/2
- **B.** 9 + 11/8
- **C.** 9 + 11/16
- **D.** This cannot be done.

C

4. Express the decimal value $7\ ^3/_8$ in binary.

- **A.** 101.11
- **B.** 111.11

- (●) **C.** 111.011
- ( ) **D.** 111.001

C

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5. Express the decimal value 0.6250 as binary.

- (●) **A.** 0.1010
- ( ) **B.** 0.0110
- ( ) **C.** 0.1100
- ( ) **D.** 0.1001

A

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6. Express 0.3125 as binary

- ( ) **A.** 0.1001
- ( ) **B.** 0.1100
- ( ) **C.** 0.1011
- (●) **D.** 0.0101

D

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7. Express the binary 1.1001 as a decimal fraction.

- (●) **A.** 1.5625
- ( ) **B.** 1.7500
- ( ) **C.** 0.6252
- ( ) **D.** 1.8750

A

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8. Express the decimal value 0.73 as an approximation in binary

- ( ) **A.** 0.11010
- (●) **B.** 0.10111
- ( ) **C.** 0.01101
- ( ) **D.** 0.10010

B

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9. Express the decimal 0.5940 in a binary approximation.

- ( ) **A.** 0.10010
- ( ) **B.** 0.10101
- ( ) **C.** 0.011111

- (•) **D.** 0.10011

D

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10. Express the decimal 0.34375 in binary

- (•) **A.** 0.01011
- ( ) **B.** 0.01101
- ( ) **C.** 0.01010
- ( ) **D.** 0.11011

A

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grade quiz The number you got right: 10 Percent Correct: 100 Letter Grade:

A

If you have returned here from another page, or have re-loaded this page, you will need to click again on each of your choices for the grading program to work correctly. You may want to press the SHIFT KEY while clicking to clear the old answers.