

Quizzes: Chapter 02

The base of the decimal number system is ____.

2

8

10

16

Correct Answer: (c)

The base of the binary number system is ____.

2

8

10

16

Correct Answer: (a)

The base of the octal number system is ____.

2

8

10

16

Correct Answer: (b)

The base of the hexadecimal number system is ____.

2

8

10

16

Correct Answer: (d)

When converting a decimal integer to base b, we repeatedly ____ b.

divide

by

multiply
by
add to
subtract from

Correct Answer: (a)

When converting a decimal fraction to base b, we repeatedly ____ b.

divide
by
multiply
by
add to
subtract from

Correct Answer: (b)

Which of the following representations is erroneous?

$(10111)_2$
 $(349)_8$
 $(3AB)_{16}$
256

Correct Answer: (b)

Which of the following representations is erroneous?

$(10211)_2$
 $(342)_8$
 $(EEE)_{16}$
145

Correct Answer: (a)

Which of the following representations is erroneous?

$(111)_2$
 $(346)_8$
 $(EEG)_{16}$
221

Correct Answer: (c)

Which of the following representations is erroneous?

$(110)_2$

$(141)_8$

$(EF)_{16}$

22A

Correct Answer: (d)

Which of the following is equivalent to 12 in decimal?

$(1110)_2$

$(C)_{16}$

$(15)_8$

None of the above

Correct Answer: (b)

Which of the following is equivalent to 24 in decimal?

$(11000)_2$

$(1A)_{16}$

$(31)_8$

None of the above

Correct Answer: (a)