Chapter 2 Exam v1

Co

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Provide an appropriate response.

1) If $56_{ten} = b_{five}$ then what is b?

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

nvert the base-ten number to a	number in the indicate	ed base.		
2) 2,874 to base eight				2)
A) 4527eight	B) 5472eight	C) 5427 _{eight}	D) 4572 _{eight}	

Shade the portion of the diagram that represents the given set.



D) $\{k, y\} \subset \{k, b, e, y, u\}$

C) $\{k, y\} \subseteq \{k, b, e, y, u\}$

7) A is the set of all even natural numbers, and B is the set of all odd natural numbers. Describe a universal set for A and B. Also, with respect to this universal set, give a relationship between A and B.

7)

1)

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Use set notation to identify the shaded region.



Shade the portion of the diagram that represents the given set.



For the given Hindu-Arabic numeral, write an equivalent numeral in the indicated system.

10) 3063; Egyptian				10)
A) 9990000000000000000000000000000000000		в) 9 П І D) £ П І		
Write the numeral in base ter 11) 555 _{six}	n.			11)
A) 1000	B) 82	C) 215	D) 110	

For the following, write an equivalent numeral in the Hindu-Arabic system.

B) 800

B) Units

A) 703

17) $\overline{A \cup B} = \overline{A} \cap \overline{B}$

18) 144,253

A) True

A) Thousands

Determine whether the following is true or false.

Write the place value of the underlined numeral.

12)		nuu-Alabic system.		12)
A) 79,378	B) 83,479	C) 88,360	D) 88,160	
Write the numeral in base ten. 13) 25 _{eight}				13)
A) 21	B) 165	C) 33	D) 133	
Find n(A) for the set A. 14) $A = \{x x \text{ is a month in the year}\}$			14)	
A) $n(A) = 24$	B) $n(A) = 12$	C) $n(A) = 1$	D) $n(A) = 52$	
Shade the portion of the diagram 15) $(A \cup B) \cap \overline{(A \cap B)}$	n that represents the give	en set.		15)
A)	R	D)	в	
Write the following as a base-ten numeral.				
16) $8 \cdot 10^2 + 3$			16)	

C) 803

B) False

C) Tens

17)

18)

D) None of these

D) Hundreds

Use set notation to identify the shaded region.



C) $\overline{A \cap B}$

D) B – A

Rewrite the statement using mathematical symbols. 20) a is an element of $\{k \ a \ d \ z \ t\}$

20) a is an element of $\{k, a, d, z, t\}$.	
A) $a \subset \{k, a, d, z, t\}$	B) a ∈ {k, a, d, z, t}
C) $\{a\} \subseteq \{k, a, d, z, t\}$	D) $\{a\} \in \{k, a, d, z, t\}$

19)

20)