Name: _____

MAT 120 Quiz 0 Fall 2023

1. The number zero	-	iii) an irrational numb)er	
,) i) and ii) only	,		e) none of these
2. Which of the following the	owing types of numb	ers are also rational m	umbers?	
i) whole	e numbers ii) integers iii)	reciprocals of nonzer	o rational numbers
a) i) only Correct Answer:	, , , , -	c) iii) only	d) i) and iii) only	e) all of them
3. Which of the following the	owing are integers?			
	i) $\sqrt{2}$	ii) $\frac{1}{2}$	i	ii) 2^4
a) all of them Correct Answer:	, , -	c) i) and ii) only	d) iii) only	e) ii) and iii) only
4. Which of the following the	owing decimal patter	rns describes a rational	l number:	
i) 0.10010100101	0010			
ii) 0.10100100010	0000			
iii) 0.1234555555	555			
, , ,	, , , ,	c) all of them	d) iii) only	e) i) and iii) only
Correct Answer:	i) and iii) only			
5. Which of the foll	owing are rational nu	umbers?		
	i) .12345	ii) .33 ż (repea	ting)	iii) $\sqrt{2}^4$
a) i) only Correct Answer:	,	c) i) and ii) only	d) iii) only	e) i) and iii) only
6. Which of the foll	owing are real but no	ot rational numbers?		
	i) $1 + i$	ii) i^2	i	ii) $\sqrt{8}$
a) i) only Correct Answer:	,	c) i) and ii) only	d) iii) only	e) i) and iii) only
7. Which of the foll	owing are complex b	ut not real numbers?		
i) 1 + <i>i</i>		ii) i^2 iii		$(1+i)^2$
a) i) only Correct Answer:	b) all of themi) and iii) only	c) i) and ii) only	d) iii) only	e) i) and iii) only
8. A rational numb	er is one which:			
i) can be express	ed as a ratio of two i	ntegers $a/b, b \neq 0$		
ii) can be written	n as the product of t	wo integers		
iii) can be writte	n as a repeating deci	mal expansion		
(Choose all answ	ers which apply to a	ll rational numbers.)		
a) all of them	b) ;) 1	\ ···\ 1····\ 1	1) •) 1 ••) 1	-) :) 1 :::) 1
	b) i) only	c) ii) and iii) only	d) i) and ii) only	e) i) and iii) only

have thought the question was asking for which statements can describe some rational numbers but not all of them.