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Set Worksheet – 2

P = {1,	2, 3, 4, 5, 6, 7}	Q = {a, e, i, o, u}	R = {10, 12, 14, 16,	18}
1. $3 \in R$, mark True / False.				
a)	True		b)	False
2. $e \in Q$, mark True / False.				
a)	True		b)	False
3. 14 R				
a)	=		b)	≠
c)	E		d)	¢
4. 5 R				
a)	=		b)	≠
c)	E		d)	¢
5. 7 ∉ P, mark True / False.				
a)	True		b)	False
6. Write the below mentioned set in Roster form.				
	The set of prime	numbers less than 15		
a)	{2, 3, 5, 7, 11, 12	, 13}		
b)	{2, 3, 5, 7, 11, 13	, 17}		
c)	{2, 3, 5, 7, 11, 13	}		
d)	None of these			
7. Write the below mentioned set in Roster form.				
	The set of multip	les of 4 less than 25.		
a)	{4, 8, 12, 20, 24}			
b)	{4, 8, 12, 16, 20,	24, 28}		
c)	{4, 8, 12, 16, 20,	24}		
d)	None of these			
8. Rewrite the following set in Roster form.				
	A = {x x is an even number greater than 10 and less than 20}			

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- a) {12, 14, 16, 18, 19}
- b) {12, 14, 16, 18}
- c) {12, 16, 18, 20}
- d) {10, 12, 14, 16, 18, 20}

9. Write a set whose members are perfect square natural numbers and each element is less than 40.

a) P = {1, 4, 9, 16, 25, 36}

- b) P = {1, 3, 9, 16, 25, 36}
- c) P = {4, 9, 16, 25, 36}
- d) P = {1, 4, 9, 16, 25, 36, 49}
- 10. A set of A of all 2-digit numbers, the sum of whose digits is 8.
- a) A = {17, 26, 44, 53, 62, 71, 80}
- b) A = {17, 26, 35, 44, 53, 62, 71, 80}
- c) A = {17, 26, 35, 44, 53, 62, 71}
- d) None of these
- 11. Write the following set in the set builder form.

P = {a, e, i, o, u}

- a) $P = \{x \mid x \text{ is a vowel of English alphabet}\}$
- b) P = {x | x is a letter of English alphabet}
- c) P = {x | x is a consonant of English alphabet}
- d) None of these
- 12. Write the following set in the set builder form.

A = {January, March, May, July, August, October, December}

- a) $A = \{x \mid x \text{ is a month of the year having 30 days} \}$
- b) A = {x | x is a month of the year having 31 days}
- c) $A = \{x \mid x \text{ is a month of the year having 28 days} \}$
- d) None of these
- 13. Write the following set in the set builder form.

R = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}

a) $R = \{x \mid x \text{ is a natural number less than 10} \}$

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- b) $R = \{x \mid x \text{ is a natural number less than } 9\}$
- c) $R = \{x \mid x \text{ is a whole number less than 10} \}$
- d) none of these
- 14. Write the following sets in a Roster form.

 $P = \{x \mid x \text{ is number of dots on a dice}\}$

- a) P = {1, 2, 3, 5, 6}
- b) P = {1, 2, 4, 5, 6}
- c) P = {1, 2, 3, 4, 5, 6}
- d) None of these
- 15. Write the following sets in a Roster form.

 $Q = \{x \mid x \text{ is prime factor of } 30\}$

- a) Q = {1, 2, 3, 10, 15, 30}
- b) Q = {1, 2, 3, 5, 6, 10, 15, 30}
- c) Q = {2, 3, 5, 6, 10, 15}
- d) None of these