



Set Theory

Name _____

Date _____

- If $P = \{a,b,c,d,e\}$, $Q = \{a,c,e,d,t\}$ and $R = \{t,d,c,b,e\}$, then the intersection of P, Q and R is
 - $\{a,c\}$
 - $\{a,c,e\}$
 - $\{c,d\}$
 - $\{c,d,e\}$
- If set $A = \{2,9,5,2\}$, then the number of subsets which can be formed from A is
 - 3
 - 4
 - 8
 - 16
- Which of the following sets is EQUIVALENT to $\{c,r,e,a,t,e\}$
 - $\{4\}$
 - $\{5\}$
 - $\{L,O,V,E\}$
 - $\{f,a,i,t,h\}$
- Which of the following is EQUAL to $\{t,e,4\}$?
 - $\{4,4,t,e\}$
 - $\{3\}$
 - $\{1,1,2\}$
 - $\{t,e,4,f\}$
- The cardinality of $A = \{5,6,3,2,3,2\}$ is
 - 6
 - 5
 - 4
 - 3
- If Z represents the set of integers, then $\{y: -1 < y < 4\}$ is
 - $\{-1,4\}$
 - $\{0,3\}$
 - $\{-1,0,1,2,3,4\}$
 - $\{0,1,2,3\}$
- If the universal set $U = \{2, 4, 6, 8, 10\}$ and $F = \{4,10\}$, then F' is
 - $\{1,3,5,7,9\}$
 - $\{2,6,8\}$
 - $\{4,6,8,10\}$
 - $\{5,7,9\}$
- If $P = \{p: p \text{ is a prime numbers less than } 10\}$, then P is
 - $\{2,3,5,7\}$
 - $\{1,2,3,5,7\}$
 - $\{2,3,5,7,9\}$
 - $\{1,2,3,5,7,9\}$



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9. Given that:

$$U = \{a, d, c, r, f, v, t, w\}, H = \{a, d, c, v\}, J = \{r, c, f\}$$

then $n(H \cup J) =$

- A. 5
- B. $\{a, c, d, r, f, v, t, w\}$
- C. $\{a, c, d, r, f, v\}$
- D. 6

10. The information below refers to Qu. 10

$$U = \{a, d, c, r, f, v, t, w\}, H = \{a, d, c, v\}, J = \{r, c, f\}$$

The set $H \cap J$ is

- A. $\{a, d, r, f, v, t\}$
- B. $\{a, d, v\}$
- C. $\{c\}$
- D. $\{a, d, v, t\}$