

## Union and Intersection of Sets

- 1)  $P = \{-31, 33, 34, -35\}$ ,  $Q = \{-31, 33, -36, -37, 39\}$ , and  $R = \{-30, 31, 34, 37, 39, -40\}$

Find the following.

i)  $P \cap Q =$  \_\_\_\_\_

ii)  $Q \cup R$  \_\_\_\_\_

iii)  $(Q \cap R) \cap P$  \_\_\_\_\_

iv)  $R \cup (P \cap Q) =$  \_\_\_\_\_

- 2)  $J = \{t, u, v, w, x, y, z\}$

Find the following.

i)  $K \cap L =$  \_\_\_\_\_

ii)  $J \cup K$  \_\_\_\_\_

iii)  $(K \cap L) \cap J$  \_\_\_\_\_

iv)  $K \cup (J \cap L)$  \_\_\_\_\_

- 3)  $E = \{\text{owls, bats, cats, dogs, pigs}\}$

$G = \{\text{peppercorn, guinea pigs, cats}\}$

Find the following.

i)  $E \cup G$  \_\_\_\_\_

ii)  $E \cap G =$  \_\_\_\_\_

iii)  $F \cap (E \cup G) =$  \_\_\_\_\_

iv)  $(E \cap G) \cup F =$  \_\_\_\_\_

# PREVIEW

**Gain complete access to the largest collection of worksheets in all subjects!**

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)