

Sets of Real Numbers

Name the set or sets to which each number belongs.

1) -15

2) 11

3) $\sqrt{30}$

4) $\frac{17}{3}$

5) 6

6) 0

7) -13

8) 3

9) $\frac{10}{11}$

10) 14

11) -13

12) π

13) $\sqrt{\frac{80}{2}}$

14) $\sqrt{77}$

15) $\frac{6}{7}$

16) $\sqrt{0}$

17) $-\sqrt{196}$

18) -1

19) $\frac{-16}{-2}$

20) $\frac{135}{-3}$

21) -8

22) $\frac{4}{3}$

23) -2.6

24) $\frac{-7}{2}$

25) 10

26) $\sqrt{10}$

27) 5.11

28) $\frac{-12}{3}$

29) -2.0

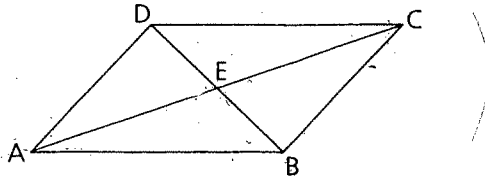
30) $\sqrt{16}$

Intersection and Union

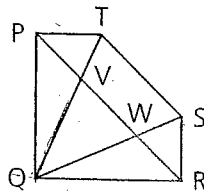
Let $A = \{1, 3, 5, 7, 9, 11, 13, 15\}$, $B = \{0, 3, 6, 9, 12, 15\}$, and $C = \{0, 2, 4, 6, 8, 10, 12, 14\}$.
Find each of the following.

6. $A \cap B$ _____ 7. $B \cup C$ _____
8. $A \cap C$ _____ 9. $A \cup B$ _____
10. $B \cap C$ _____ 11. $A \cup C$ _____

12. a $\overline{AB} \cap \overline{BC} = \underline{\quad? \quad}$
b $\overrightarrow{EC} \cup \overrightarrow{EA} = \underline{\quad? \quad}$
c $\overleftrightarrow{AC} \cap \overleftrightarrow{DB} = \underline{\quad? \quad}$
d $\overline{DC} \cap \overline{AB} = \underline{\quad? \quad}$
e $\overrightarrow{AC} \cap \overrightarrow{EC} = \underline{\quad? \quad}$
f $\overrightarrow{BA} \cup \overrightarrow{BC} = \underline{\quad? \quad}$
g $\overline{EC} \cup \overline{CB} \cup \overline{BE} = \underline{\quad? \quad}$



13. a $\overrightarrow{QV} \cap \overleftrightarrow{TS} = \underline{\quad? \quad}$
b $\overline{WP} \cap \overline{VR} = \underline{\quad? \quad}$
c $\overrightarrow{WP} \cup \overrightarrow{VR} = \underline{\quad? \quad}$
d $\overrightarrow{SQ} \cup \overrightarrow{SR} = \underline{\quad? \quad}$



14. h $\overrightarrow{EC} \cup \overrightarrow{FA} = \underline{\quad? \quad}$
i $\overline{EC} \cap \overline{FA} = \underline{\quad? \quad}$
j $\overrightarrow{BA} \cup \overrightarrow{BE} = \underline{\quad? \quad}$
k $\overleftrightarrow{AC} \cap \overleftrightarrow{DR} = \underline{\quad? \quad}$
l $\angle AFD \cap \overline{CE} = \underline{\quad? \quad}$

