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CLASS - 11

SETS



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EXERCISE 1.1 - Question No. 1

Which of the following are sets? Justify your answer. (i) The collection of all the months of a year beginning with the letter J. (ii) The collection of ten most talented writers of India. (iii) A team of eleven bestcricket batsmen of the world. (iv) The collection of all boys in your class. (v) The collection of all natural numbers less than 100. (vi) A collection of novels written by the writer Munshi Prem Chand. (vii) The collection of all even integers. (viii) The

collection of questions in this Chapter. (ix) A collection of most

dangerous animals of the world.

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EXERCISE 1.1 - Question No. 2

Let $A = \{1, 2, 3, 4, 5, 6\}$. Insert the appropriate symbol \in or \notin

in the blank spaces: (i) 5. A (ii) 8...A (iii) 0. A (iv) 4. . A (v) 2. A (vi)

`10.



Write the following sets in roster form: (i) $A = \{x : x \text{ is an integer} \}$

and 3 < x < 7 } (ii) B = {x : x is a natural number less than 6} (iii)

 $C = \{x: x \text{ is a twodigit natural number such that the sum of its } \}$

digits i (iv) $D = {x : x is}$



EXERCISE 1.1 - Question No. 4

Write the following sets m the setbuilder form: (i) (3, 6, 9, 12} (ii)

 $\{2, 4, 8, 16, 32\}$ (iii) $\{5, 25, 125, 625\}$ (iv) $\{2, 4, 6, ...\}$ (v)

{1, 4, 9, ..., 100}

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List all the elements of the following sets : (i) $A = \{x : x \text{ is an odd} \}$

natural number} (ii) B = {x : x is an integer, $-\frac{1}{2} < x < 92 = } = (iii) =$

 $c = \{x := x = is = an = integer, = x^2 \le 4 \text{ (iv)} = d = \{x a = letter = in = the = i$

word= loyal}= (v)= e={x i le b= gt lt /x lt 9 gt

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EXERCISE 1.1 - Question No. 6

Match each of the set on the left in the roster form with the same

set on the right described m setbuilder form: (i) $\{1, 2, 3, 6\}$ (a) $\{x :$

x is a prime number and a divisor of 6} (ii) $\{2, 3\}$ (b) $\{x : x \text{ is an }$

odd natural number less th



EXERCISE 1.2 - Question No. 1

Which of the following are examples of the null set (i) Set of odd

natural numbers divisible by 2 (ii) Set of even prime numbers (iii)

{x: x is a natural numbers, x < 5 and x > 7 } (iv) {y: y is a point

common to any two par

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Which of the following sets are finite or infinite (i) The set of

months of a year (ii) {1, 2, 3, ...} (iii) {1, 2, 3, ...99, 100} (iv) The

set of positive integers greater than 100 (v) The set of prime

numbers less than 99



EXERCISE 1.2 - Question No. 3

State whether each of the following set is finite or infinite: (i) The

set of lines which are parallel to the xaxis (ii) The set of letters in

the English alphabet (iii) The set of numbers which are multiple of

5 (iv) The set of animals living on the earth (v) The set of circles

passing through the origin (0, 0)

EXERCISE 1.2 - Question No. 4

In the following, state whether A = B or not: (i) $A = \{a, b, c, d\}$

 $B = \{d, c, b, a\}$ (ii) $A = \{4, 8, 12, 16\}$ $B = \{8, 4, 16, 18\}$ (iii)

 $A = \{2, 4, 6, 8, 10\}$ B = {x: x is po

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EXERCISE 1.2 - Question No. 5

Are the following pair of sets equal? Give reasons. (i) $A = \{2, 3\}$,

B = {x: x is solution of $x^2 + 5x + 6 = 0$ } (ii) A = { x : x is a letter

in the word FOLLOW} $B = \{ y : y \text{ is a letter in the word WOLF} \}$

EXERCISE 1.2 - Question No. 6

From the sets given below, select equal sets : $A = \{2, 4, 8, 12\}$,

 $B = \{1, 2, 3, 4\}, C = \{4, 8, 12, 14\}, D = \{3, 1, 4, 2\} E = \{-1, 1\}$

, $F = \{0, a\}$, $G = \{1, -1\}$, $H = \{0, 1\}$

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EXERCISE 1.3 - Question No. 1

Make correct statements by filling m the symbols \subset or in the

blank spaces : (i) {2, 3, 4}1, 2, 3, 4, 5 (ii) {*a*, *b*, *c*}*b*, *c*, *d* (iii) {x: x

EXERCISE 1.3 - Question No. 2

Examine whether the following statements are true or false: (i)

 $\{a, b\}\{b, c, a\}$ (ii) $\{a, e\} \subset \{x : x \text{ is a vowel in the English}\}$

alphabet} (iii) $\{1, 2, 3\} \subset \{1, 3, 5\}$ (iv) `{ a }sub { a , b , c

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EXERCISE 1.3 - Question No. 3

Let $A = \{1, 2, \{3, 4\}, 5\}$. Which of the following statements are

incorrect and why? (i) $\{3, 4\} \subset A$ (ii) $\{3, 4\} \in A$ (iii) $\{\{3, 4\}\} \subset A$

(iv) $1 \in A$ (v) $1 \subset A$ (vi) $\{1, 2, 5\} \subset A$ (vii) ` $\{1, 2, 5\} \subset A$

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EXERCISE 1.3 - Question No. 4

Write down all the subsets of the following sets (i) $\{a\}$ (ii) $\{a, b\}$

(iii) $\{1, 2, 3\}$ (iv) φ

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EXERCISE 1.3 - Question No. 5

How many elements has P(A), if $A = \varphi$?

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Write the following as intervals : (i) $\{x : x \in R, 4 \le x \le 6\}$ (ii)

 ${x: x \in R, 12 < x < 10}$ (iii) ${x: x \in R, 0 \le x < 7}$ (iv)

 ${x:x \in R, 3 \le x \le 4}$

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EXERCISE 1.3 - Question No. 7

Write the following intervals in setbuilder form: (i) (3, 0) (ii) [6, 12]

(iii) (6, 12] (iv) [23, 5)

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What universal set(s) would you propose for each of the following :

(i) The set of right triangles. (ii) The set of isosceles triangles.

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EXERCISE 1.3 - Question No. 9

Given the sets $A = \{1, 3, 5\}$, $B = \{2, 4, 6\}$ and $C = \{0, 2, 4, 6, 8\}$,

which of the following may be considered as universal set (s) for

all the three sets A, B and C (i) {0, 1, 2, 3, 4, 5, 6} (ii) `var

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Find the union of each of the following pairs of sets : (i)

 $X = \{1, 3, 5\}$ $Y = \{1, 2, 3\}$ (ii) $A = [a, e, i, o, u\}$ $B = [a, b, c\}$ (iii) A

= {x : x is a natural number and multiple of 3} B = {x : x is a na

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EXERCISE 1.4 - Question No. 2

Let $A = \{a, b\}, B = \{a, b, c\}$. Is $A \subset B$? What is $A \cup B$?

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taking the set of natural numbers as the universal set, write down

the complement of the following sets :

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EXERCISE 1.4 - Question No. 4

If $A = \{1, 2, 3, 4\}$, $B = \{3, 4, 5, 6\}$, $C = \{5, 6, 7, 8\}$ and

 $D = \{7, 8, 9, 10\}$: find (i) $A \cup B$ (ii) $A \cup C$ (iii) $B \cup C$ (iv) $B \cup D$

 $(v) A \cup B \cup C (vi) A \cup B \cup D (vii) B \cup C \cup D$

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Find the intersection of each pair of sets of question 1 above.

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EXERCISE 1.4 - Question No. 6

If $A = \{3, 5, 7, 9, 11\}$, $B = \{7, 9, 11, 13\}$, $C = \{11, 13, 15\}$ and

 $D = \{15, 17\}$; find (i) $A \cap B$ (ii) $B \cap C$ (iii) $A \cap C \cap D$ (iv) $A \cap C$

(v) $B \cap D$ (vi) $A \cap (B \cup C)$ (vii) $A \cap D$ (v

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If $A = \{x : x \text{ is a natural number}\}, B = \{x : x \text{ is an even natural}\}$

number} $C = \{x : x \text{ is an odd natural number}\}$ and $D = \{x : x \text{ is a } x \text{ odd natural number}\}$

prime number }, find (i) $A \cap B$ (ii) $A \cap C$ (iii) $A \cap D$ (iv) $B \cap C$ (v)

 $B \cap D$ (vi) $C \cap D$

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EXERCISE 1.4 - Question No. 8

Which of the following pairs of sets are disjoint (i) $\{1, 2, 3, 4\}$ and

{x : x is a natural number and $4 \le x \le 6$ } (ii) {*a*, *e*, *i*, *o*, *u*} and

 $\{c, d, e, f\}$ (iii) $\{x : x \text{ is an even integer }\}$ and $\{x : x \text{ is an odd }\}$

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If $A = \{3, 6, 9, 12, 15, 18, 21\}$, $B = \{4, 8, 12, 16, 20\}$,

 $C = \{2, 4, 6, 8, 10, 12, 14, 16\}, D = \{5, 10, 15, 20\}$; find (i) A - B

(ii) A - C (iii) A - D

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EXERCISE 1.4 - Question No. 10

If $X = \{a, b, c, d\}$ and $Y = \{f, b, d, g\}$, find (i) X - Y(ii) Y - X(iii) $X \cap Y$

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If R is the set of real numbers and Q is the set of rational numbers,

then what is *RQ*?

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EXERCISE 1.4 - Question No. 12

State whether each of the following statement is true or false.

Justify your answer. (i) $\{2, 3, 4, 5\}$ and $\{3, 6\}$ are disjoint sets, (ii)

 $\{a, e, i, o, u\}$ and $\{a, b, c, d\}$ are disjoint sets, (iii

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Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ and $C = \{3, 4, 5, 6\}$. Find (i) A' (ii) B' (iii) $(A \cup C)'$ (iv) $(A \cup B)'$ (v) `(A^

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EXERCISE 1.5 - Question No. 2

If $U = \{a, b, c, d, e, f, g, h\}$, find the complements of the following

sets : (i) $A = \{a, b, c\}$ (ii) $B = \{d, e, f, g\}$ (iii) $C = \{a, c, e, g\}$ (iv) $D = \{f, g, h, a\}$

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Taking the set of natural numbers as the universal set, write down

the complements of the following sets: (i) $\{x : x \text{ is an even natural} \}$

number} (ii) { x: x is an odd natural number} (iii) {x: x is a

positive multiple of 3} (iv) { x: x i

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EXERCISE 1.5 - Question No. 4

If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{2, 4, 6, 8\}$ and $B = \{2, 3, 5, 7\}$

. Verify that (i) $(A \cup B)' = A' \cap B'$ (ii) $(A \cup B)' = A' \cup B'$

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Draw appropriate Venn diagram for each of the following : (i)

 $(A \cup B)'$ (ii) $A' \cap B'$ (iii) $(A \cap B)'$ (iv) $A' \cup B'$

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EXERCISE 1.5 - Question No. 6

Let U be the set of all triangles in a plane. If A is the set of all

triangles with at least one angle different from 60, what is A'?

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Fill in the blanks to make each of the following a true statement :

(i)
$$A \cup A' = ...$$
 (ii) $\varphi' \cap A = ...$ (iii) $A \cap A' = ...$ (iv) $\cup' \cap A = ...$

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EXERCISE 1.6 - Question No. 1

If X and Y are two sets such that n(X) = 17, n(Y) = 23 and

 $n(X \cup Y) = 38$, find $n(X \cap Y)$.

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If X and Y are two sets such that has 18 elements, X has 8 elements

and Y has 15 elements; how many elements does $X \cap Y$ have?

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EXERCISE 1.6 - Question No. 3

In a group of400 people, 250 can speak Hindi and 200 can speak

English. How many people can speak both Hindi and English?

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If S and T are two sets such that S has 21 elements, T has 32

elements, and $S \cap T$ has 11 elements, how many elements does

 $S \cup T$ have?

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EXERCISE 1.6 - Question No. 5

If X and Y are two sets such that X has 40 elements, $X \cup Y$ has 60

elements and $X \cap Y$ has 10 elements, how many elements does Y

have?

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In a group of 70 people, 37 like coffee, 52 like tea and each person

likes at least one of the two drinks. How many people like both

coffee and tea?

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EXERCISE 1.6 - Question No. 7

In a group of 65 people, 40 like cricket, 10 like both cricket and

tennis. How many like tennis only and not cricket? How many like

tennis?

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In a committee, 50 people speak French, 20 speak Spanish and 10

speak both Spanish and French. How many speak at least one of

these two languages?

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MISCELLANEOUS EXERCISE - Question No. 1

Decide, among the following sets, which sets are subsets of one and

another:
$$A = \{x : x \in Randxsatiyx^2 \otimes x + 12 = 0\}$$
, `B = $\{2, 4, 6\}$,

 $C = \{ 2, 4, 6. 8 \text{ dot } do$

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In each of the following, determine whether the statement is true or

false. If it is true, prove it. If it is false, give an example. (i)

If $x \in A$ and $A \in B$, then $x \in B$ (ii) If $A \subset B$ and $B \in C$ then $A \in C$

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MISCELLANEOUS EXERCISE - Question No. 3

Let A, B and C be the sets such that $A \cup B = A \cup C$ and

 $A \cap B = A \cap C$. Show that B = C.

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MISCELLANEOUS EXERCISE - Question No. 4

Show that the following four conditions are equivalent: (i) $A \subset B$

(ii) $AB = \varphi$ (iii) $A \cup B = B$ (iv) $A \cap B = A$

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MISCELLANEOUS EXERCISE - Question No. 5

Show that if $A \subset B$, then $C - B \subset C - A$.

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MISCELLANEOUS EXERCISE - Question No. 6

Assume that P(A) = P(B). Show that A = B

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Is it true that for any sets A and B, $P(A) \cup P(B) = P(A \cup B)$?

Justify your answer.



MISCELLANEOUS EXERCISE - Question No. 8

Show that for any sets A and B, $A = (A \cap B) \cup (AB)$ and

 $A \cup (BA) = (A \cup B)$

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MISCELLANEOUS EXERCISE - Question No. 9

Using properties of sets, show that (i) $A \cup (A \cap B) = A$ (ii)

 $A \cap (A \cup B) = A .$

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MISCELLANEOUS EXERCISE - Question No. 10

Show that $A \cap B = A \cap C$ need not imply B = C.



MISCELLANEOUS EXERCISE - Question No. 11

Let A and B be sets. If $A \cap X = B \cap X = \varphi$ and $A \cup X = B \cup X$ for

some set X, show that A = B. (Hints

 $A = A \cap (A \cup X), B = B \cap (B \cup X)$ and use Distributive law)

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MISCELLANEOUS EXERCISE - Question No. 12

Find sets A, B and C such that $A \cap B$, $B \cap C$ and $A \cap C$ are non

empty sets and $A \cap B \cap C = \phi$.

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MISCELLANEOUS EXERCISE - Question No. 13

In a survey of 600 students in a school, 150 students were found to

be taking tea and 225 taking coffee, 100 were taking both tea and

coffee. Find how many students were taking neither tea nor coffee?

MISCELLANEOUS EXERCISE - Question No. 14

In a group of students, 100 students know Hindi, 50 know English

and 25 know both. Each of the students knows either Hindi or

English. How many students are there in the group?

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MISCELLANEOUS EXERCISE - Question No. 15

In a survey of 60 people, it was found that 25 people read

newspaper H. 26 read newspaper T, 26 read newspaper 1, 9 read

both H and I. 11 read both H and T, 8 read both T and I, 3 read all

three newspapers. Find: (i) the number of people who read at least

one of the newspapers. (ii) the number of people who read exactly

one newspaper.

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MISCELLANEOUS EXERCISE - Question No. 16

In a survey it was found that 21 people liked product A, 26 liked

product B and 29 liked product C. If 14 people liked products A

and B, 12 people liked products C and A, 14 people liked products

B and C and 8 liked all the three products. Find how many liked product C only.

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Write the solution set of the equation $x^2 + x^2 = 0$ in roster form.

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SOLVED EXAMPLES - Question No. 2

Write the set
$$\{x: x is a positive \int e \ge randx^2 \text{ and } <; 40\}$$
 in the

roster form.



SOLVED EXAMPLES - Question No. 3

Write the set $A = \{1, 4, 9, 16, 25, .\}$ in setbuilder form.



Write the set
$$\left\{\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}\right\}$$
 in the setbuilder form.

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SOLVED EXAMPLES - Question No. 5

Match each of the set on the left described in the roster form with

the same set on the light described in the setbuilder form : (i)

 $\{P, R, I, N, C, A, L\}$ (a) $\{x : x \text{ is a positive integer and is a divisor}$

of 18} (ii) `{ 0

State which of the following sets are finite or infinite : (i)

$${x:x \in Nand(x1)(x2) = 0}$$
 (ii) ${x:x \in Nandx^2 = 4}$ (iii)

 ${x:x \in Nand2x1 = 0}$ (iv) ` ${x:x}$

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SOLVED EXAMPLES - Question No. 7

Find the pairs of equal sets, if any, give reasons: $A = \{0\}$,

$$B = \{x : x > 15 and x < 5\}, \ C = \{x : x5 = 0\}, \ D = \{x : x^2 = 25\},\$$

 $E = {x : x i s a n in t egr a l pos i t i v e}$

The Fig 2.6 shows a relation between the sets P and Q. Write tins

relation (i) in set-builder form, (ii) in roster form. What is its

domain and range?

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SOLVED EXAMPLES - Question No. 9

Consider the sets φ , $A = \{1, 3\}$, $B = \{1, 5, 9\}$, $C = \{1, 3, 5, 7, 9\}$

Insert the symbol \subset or between each of the following pair of sets

: (i) *\varphi B* (ii) `A dot

Let $A = \{a, e, i, o, u\}$ and $B = \{a, b, c, d\}$ Is A a subset of B? No.

(Why?). Is B a subset of A? No. (Why?)

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SOLVED EXAMPLES - Question No. 11

Let A, B and C be three sets. If $A \in B$ and $B \subset C$. is it true that

 $A \subset C$? If not give an example.

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Let $A = \{2, 4, 6, 8\}$ and $B = \{6, 8, 10, 12\}$. Find $A \cup B$.

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SOLVED EXAMPLES - Question No. 13

Let $A = \{a, e, i, o, u\}$ and $B = \{a, i, u\}$. Show that $A \cup B = A$

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SOLVED EXAMPLES - Question No. 14

Let $X = \{Rani, Geeta, Akbar\}$ be the set of students of Class XI

who are in school hockey team. Let $Y = \{Geeta, David, Ashok\}$ be

the set of students from Class XI who are in the school football

team. Find $X \cup Y$ and interpret the set



SOLVED EXAMPLES - Question No. 15

Consider the sets A and B of Example 12. Find $A \cap B$.

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SOLVED EXAMPLES - Question No. 16

Consider the sets X and Y of Example 14. Find $X \cap Y$

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let $f(x) = \sqrt{x}$ and g(x) = x be function defined over the set of non

negative real numbers . find (f+g)(x), (f-g)(x), (fg)(x) and (f/g)(x)



SOLVED EXAMPLES - Question No. 18

Let $A = \{1, 2, 3, 4, 5, 6\}$, $B = \{2, 4, 6, 8\}$. Find A - BandB - A.

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SOLVED EXAMPLES - Question No. 19

Let $V = \{a, e, i, o, u\}$ and $B = \{a, i, k, u\}$. Find V - BandB - V

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SOLVED EXAMPLES - Question No. 20

Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ and $A = \{1, 3, 5, 7, 9\}$. Find

 $A^{'}$.

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SOLVED EXAMPLES - Question No. 21

Let u be universal set of all the students of Class XI of a

coeducational school and A be the set of all girls in Class XI. Find

SOLVED EXAMPLES - Question No. 22

Let $U = \{1, 2, 3, 4, 5, 6\}$, $A = \{2, 3\}$ and $B = \{3, 4, 5\}$ Find A',

 $B', A' \cap B', A \cup B$ and hence show that $(A \cup B)' = A' \cap B'$.

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SOLVED EXAMPLES - Question No. 23

If X and Y are two sets such that $X \cup Y$ has 50 elements, X has

28 elements and Y has 32 elements, how many elements does X \cap

Y have?

SOLVED EXAMPLES - Question No. 24

In a school there are 20 teachers who teach mathematics or physics.

Of these, 12 teach mathematics and 4 teach both physics and

mathematics. How many teach physics?

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SOLVED EXAMPLES - Question No. 25

In a class of 35 students, 24 like to play cricket and 16 like to play

football. Also, each student likes to play at least one of the two

games. How many students like to play both cricket and football?

SOLVED EXAMPLES - Question No. 26

In a survey of 400 students in a school, 100 were listed as taking

apple juice, 150 as taking orange juice and 75 were listed as taking

both apple as well as orange juice. Find how many students were

taking neither apple juice nor orange juice.

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SOLVED EXAMPLES - Question No. 27

There are 200 individuals with a skin disorder, 120 had been

exposed to the chemical C_1 ? 50 to chemical C_2 , and 30 to both the

chemicals C_1 and C_2 . Find the number of individuals exposed to

(i) Chemical C_1 but not chemical C_2



SOLVED EXAMPLES - Question No. 28

Show that the set of letters needed to spell CATARACT and the set

of letters needed to spell TRACT are equal.

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SOLVED EXAMPLES - Question No. 29

List all the subsets of the set $\{1, 0, 1\}$.



Show that $A \cap B = A \cap B$ implies A = B



SOLVED EXAMPLES - Question No. 31

For any sets A and B. show that $P(A \cap B) = P(A) \cap P(B)$.



SOLVED EXAMPLES - Question No. 32

A market research group conducted a survey of 1000 consumers

and reported that 720 consumers like product A and 450 consumers

like product B. what is the least number that must have liked both

products?

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SOLVED EXAMPLES - Question No. 33

Out of 500 car owners investigated, 400 owned car A and 200

owned car B, 50 owned both A and B cars. Is this data correct?

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SOLVED EXAMPLES - Question No. 34

A college warded 38 medals in football, 15 in basketball and 20 in

cricket. If these medals went to a total of 58 men and only three

men got medals in all the three sports, how many received medals

in exactly two of the three sports?

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