



1- complete :

- a) the smallest natural number is
- b) if $a \in \mathbb{N}$, $b \in \mathbb{N}$, then $a \times b \dots\dots\dots \mathbb{N}$
- c) if $x = \{ a : a \in \mathbb{N}, a \text{ lies between } 0 \text{ and } 4 \}$ then $a \in \{ \dots\dots\dots \}$
- d) $\dots\dots\dots + b = \dots\dots\dots + a$ ($\dots\dots\dots$ property)
- e) $48 + (\dots\dots\dots + 17) = (\dots\dots\dots + 52) + 17 = \dots\dots\dots 17$ ($\dots\dots\dots$ property)
- f) The set of natural numbers that are less than or equal 4 is
- g) If $x = \{ x : x \in \mathbb{N}, 2 \leq x < 3 \}$, then $x = \dots\dots\dots$
- h) If $5 \times 48 = (X \times 8) + (X \times 40)$, then $x = \dots\dots\dots$
- j) If we multiply the number x by 7, then subtracted from the result 3,
Then we get
- k) If $4 + x = 18$, then $x = \dots\dots\dots$
- l) $\dots\dots\dots, 8, 11, 14, \dots\dots\dots, \dots\dots\dots$ (in same pattern)
- m) Find the next term in the sequence: 1, 3, 9, 27,

2- Choose the correct answer :

- a) Two number their sum is 15, and the smallest one is x , then the
greatest one is
($x + 15, 15x, 15 - x, x - 15$)
- b) The next number in pattern 3, 4, 6, 9, (12, 13, 14, 15)
- c) $\{ 3, 7 \} \cap \{ 2, 6 \} \dots\dots\dots \mathbb{N}$ ($\emptyset, 2, 3, 7$)
- d) Two number their difference is 5 and the smallest one is Y , then the
greatest one is ($5Y, 5 - Y, Y - 5, Y + 5$)



- e) The smallest prime number X Any prime number =
(even , odd , prime , nothing)
- f) Two number X, Y one of them increased by 8 , if the smallest one Y, then $X = \dots\dots\dots$ ($Y - 8$, $8Y$, $Y + 8$, $1/8 Y$)
- g) If x an odd number, then $x - 1$ is number
(odd , even , prime , nothing)
- h) ($4 \times \dots\dots\dots$) $\times 78 = 7800$ (5 , 25 , 50 , 125)
- i) N odd number = N (n , U , - , nothing)
- j) If a , b is natural number , then $a - b$ is always possible in N if $a \dots b$
($<$, \geq , \leq , $>$)
- k) If $5x + 7 = 27$, $x \in N$, then $x = \dots\dots\dots$ (4 , 20 , 15 , 8)

3- If $U = \{ x : x \in N, x \geq 8 \}$

$X = \{ x : x \text{ is a prime numbers} \}$

$Y = \{ 3 , 5 , 6 , 7 \}$

First: write by listing method the set U , X

Second: Draw a Venn diagram with U , X , Y

Third: Find

a) $x - y$

b) $x \cup y$

c) $x \cap y$

c) x

d) y

e) $(x - y)$

- 4- (a) If the number x increased by twice 7 by 7 , write the relation between x , y

(b) Write by listing method the set



$$X = \{x : x \in N, 8 > x \geq 3\}$$

Then represent the set on the number line

5- (a) Use the distributive property to find the value of

1- 517×99

2- 316×1001

(b) if the relation between x , y is

$Y = 3x - 1$, then complete the table

X	7	3	1
Y	14	23	32

