

## Exercise 1.2

Q.1 Write each of the following numbers in digits by using International Place value chart. Also write them in expanded form.

- (i) Seven million three hundred three thousand two hundred six.  
 (ii) Fifty five million twenty nine thousand seven.  
 (iii) Six billion one hundred ten million three thousand seven.

Solution (i) using international place value chart

It can be written as 7,303,206

$$\begin{aligned} \text{Expanded form} &= 7 \times 1000000 + 3 \times 100000 + 0 \times 10000 \\ &+ 3 \times 1000 + 2 \times 100 + 0 \times 10 + 6 \times 1 \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad 55,029,007 &= 5 \times 10000000 + 5 \times 1000000 + 0 \times 100000 \\ &+ 2 \times 10000 + 9 \times 1000 + 0 \times 100 + 0 \times 10 + 7 \times 1 \end{aligned}$$

$$\text{(iii)} \quad 6,110,003,007$$

$$\begin{aligned} &= 6 \times 1000000000 + 1 \times 100000000 + 1 \times 10000000 \\ &+ 0 \times 1000000 + 0 \times 100000 + 0 \times 10000 + 3 \times 1000 + 0 \times 100 \\ &+ 0 \times 10 + 7 \times 1 \end{aligned}$$

Q.2 Rewrite each of the following numerals with proper commas in the international system of numeration. Also, write the number name of each in the international system of numeration.

- (i) 513625      (ii) 4035672      (iii) 65954923  
(iv) 70902005

- Solution (i) 513,625 - Five hundred thirteen thousand six hundred twenty five.  
(ii) 4,035,672 - Four million thirty five thousand six hundred seventy two.  
(iii) 65,954,923 - Sixty five million nine hundred fifty four thousand nine hundred twenty three.  
(iv) 70,902,005 - Seventy million nine hundred two thousand five.
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Q.3 Write each of the following numbers in the International system of numeration.

- (i) Forty three lakh four thousand eighty four.  
(ii) Six crore thirty four lakh four thousand forty four.  
(iii) Seven lakh thirty five thousand eight hundred ninety nine only.

Solution

- (i) 4,304,084 - Four million Three hundred four thousand eighty four.
- (ii) 63,404,044 - Sixty three million four hundred four thousand forty four.
- (iii) 735,899 - Seven hundred Thirty five thousand eight hundred ninety nine.
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Q.4 write the following numbers in indian system of numeration

- (i) Six million five hundred forty three thousand two hundred ten
- (ii) seventy six million eighty five thousand nine hundred eighty seven.
- (iii) Three hundred twenty five million four hundred, seventy nine thousand eight hundred thirty eight.

Solution

- (i) 65,43,210 - Sixty five lakh forty three thousand two hundred ten.
- (ii) 7,60,85,987 = Seven crore sixty lakh eighty five thousand nine hundred eighty seven
- (iii) 32,54,79,838 = Thirty two crore fifty four lakh seventy nine thousand eight hundred thirty eight.

Q.5 A certain nine digit number has only ones in ones period, only twos in the thousand period and only three in millions period.  
Write this number in words in the Indian System.

Solution In International system = 333, 222, 111

This number in Indian System of numeration can be written as 33,32,22,111

In words : Thirty three crore Thirty two lakh twenty two thousand one hundred eleven.

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Q.6 How many thousand make a million?

Sol: As we know that

$$\text{one thousand} = 1000$$

$$\text{one million} = 1,000,000$$

$$= 1000 \times 1000$$

$$= \text{Therefore, } 1000 \text{ thousands}$$

make a million.

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Q.7 How many millions make a billion?

Sol:  $\text{one million} = 1,000,000$

$$\text{one billion} = 1,000,000,000$$

$$= 1000 \times 1,000,000$$

$$= \text{Thousand millions make a billion.}$$

Q.8 (i) How many lakhs make a million.

Solution      one lakh = 1,00,000  
                      one million = 1,000,000  
                                          =  $10 \times 1,00,000$   
                                          = 10 lakhs make a million.

(ii) How many lakhs make a billion?

Sol:      one lakh = 1,00,000  
                      one billion = 1,000,000,000  
                                          =  $10,000 \times 1,00,000$   
                                          = Ten thousand lakhs make a billion.

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Q.9 Write each of the following numbers in numeral form.

(i) Eight million seven hundred eight thousand four.

(ii) Six hundred seven million twelve thousand eighty four.

(iii) Four billion twenty five million forty five thousand.

Solution (i) 8,708,004  
                  (ii) 607,012,084  
                  (iii) 4,025,045,000

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Q.10 Write the number names of each of the following in International system of numeration.

(i) 435,002      (ii) 1,047,509,      (iii) 59,064,523

(iv) 25,201,905

Sol: (i) 435,002 - four hundred thirty five thousand two

(ii) 1,047,509 - one million forty seven thousand five hundred nine.

(iii) 59,064,523 - Fifty nine million sixty four thousand five hundred twenty three.

(iv) 25,201,905 - Twenty five million two hundred one thousand nine hundred five.

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