

Class: VI Subject: Maths Date: 13.4.2023

Topic: Ch-1 Number System

Answer key Exercise 1(c)Sol. 3:- Number of books sold in 2012 = 1657329

Number of books sold increased by = +782315

So, number of books sold in 2013 2439644

So, 2439644 books were sold in the year 2013

Total books sold in two years = 1657329

+ 2439644

4096973Sol. 5:- Number = 7899305

+ 42973858

50873163

2148127911

Sol. 7:- Total population of a city = ~~34427861~~Number of Males = -18352017

So, number of females = 16575784

Therefore, there are 1,65,75,784 females in a city.

Sol. 10:- Total quantity of milk = ~~725 l 000 ml~~Quantity of milk sold = 678 l 250 mlQuantity of milk left = 046 l 750 ml

So, 46 l 750 ml of milk was left with the shopkeeper.

Sol. 18:- Total length of a rope = 15m or 1500 cm

Number of pieces = 12

Length of each piece = $1500 \div 12$

= 125 cm

= 1m 25 cm

12 $\overline{)1500}$ (12512

30

24

60

60

So, the length of each piece is 1m 25 cm.

Exercise 1(D)

Sol 1:- (i) 573 correct to the nearest ten = 570

(ii) 3872 correct to the nearest hundred = 3900

Sol 2:- (i) 47235839 to the nearest ten lakh
= 47000000

Sol 3:- (ii) 68443675 correct to the nearest
hundred = 68443700

Sol 4:- Estimate to the nearest ten.

(i) $43 + 28$ $43 \rightarrow 40$

$28 \rightarrow 30$

70 is estimated sum

(v) $634 + 478$ $634 \rightarrow 630$

$478 \rightarrow 480$

1110 is estimated sum

Sol 5:- (v) $3120 + 6370$ to nearest hundred

$3120 \rightarrow 3100$

$6370 \rightarrow 6400$

9500 is estimated sum

Sol 7:- (iii) $508 - 237$ to nearest ten

$508 \rightarrow 510$

$237 \rightarrow 240$

270 is estimated difference

Sol 10:- (v) 594×248

$594 \rightarrow 600$

$248 \rightarrow 200$

Product = $600 \times 200 = 120000$

Sol 11:- (i) $87 \div 27$

$87 \rightarrow 90$

$27 \rightarrow 30$

So, $90 \div 30 = 3$

(v) $731 \div 22$

$731 \rightarrow 700$

$22 \rightarrow 20$ So, $700 \div 20 = 35$

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Solution of Extra questions:

Sol 1:- The length of cloth available = 40m
= 4000 cm

The length of cloth required to stitch a shirt
= 2m 15cm = $2 \times 100 + 15$
= 215 cm

Dividing 4000 by 215, we get

quotient = 18 and

remainder = 130

Hence, the number of shirt
that can be stitched = 18 and
the length of the remaining
cloth = 130 cm = 1m 30 cm

Sol 2:- Total quantity of curd = 4 l 500 ml
= $4 \times 1000 + 500 = 4500$ ml

Capacity of a glass = 250 ml

Number of glasses required = $\frac{4500}{250} = 18$

Thus, 4 l 500 ml of curd be filled in 18 glasses

Sol 3:- Money spent = 16850 + 45000 + 870000

Working:-
= ₹ 9,31,850

$$\begin{array}{r} 16850 \\ 45000 \\ 870000 \\ \hline 931850 \end{array}$$

$$\begin{array}{r} 0999910 \\ 1000000 \\ - 931850 \\ \hline 068150 \end{array}$$

Money left = ₹ 68150

Sol 4: (i) $4390 + 16825$

$$4390 \rightarrow 4000$$

$$16825 \rightarrow 17000$$

$$\text{Sum} \quad \underline{21000}$$

(ii) $13805 + 2892$

$$13805 \rightarrow 14000$$

$$2892 \rightarrow 3000$$

$$\text{Sum} \quad \underline{17000}$$

Sol 6:- The given number is $9,350,71,360$

$\downarrow$ $\downarrow$
 crores hundreds

Place value of 3 at hundreds place = 300

Place value of 3 at crores place = 300,00,000

$$\text{Required difference} = \begin{array}{r} 300,00,000 \\ - \quad \quad 300 \\ \hline 2,99,99,700 \end{array}$$

So, the difference between the place values of two 3's is 2,99,99,700

Sol 7:- (i) 2345678

Indian system $\rightarrow$ 23,45,678

Twenty-three lakh forty-five thousand six hundred seventy-eight

International system $\rightarrow$ 2,345,678

Two million three hundred forty-five thousand six hundred seventy eight

Sol 8:- The given digits are 6, 5, 0

Required 3-digit numbers that can be formed
650, 560, 506 and 605

So, the number of 3-digits numbers using 6, 5, 0 is four.