Expanded form

Example ①

7,34,543 → Ones, Tens, Hundreds, Thousands, Ten thousands, Lakhs, Ten lakhs

$= 7 \times 1,00,000 + 3 \times 10,000 + 4 \times 1,000 + 5 \times 100 + 4 \times 10 + 3 \times 1$

$= 7,00,000 + 30,000 + 4,000 + 500 + 40 + 3$

Example ②

Example ③

45,278 → Ones, Tens, Hundreds, Thousands, Ten thousands

$= 4 \times 10,000 + 5 \times 1,000 + 2 \times 100 + 7 \times 10 + 8 \times 1$

$= 90,000 + 5,000 + 200 + 70 + 8$

Exercise 1.2

① A book exhibition was held for four days in a school. The number of tickets sold at the counter on the first, second, third and final day was respectfully 1094, 1812, 2050 and 2751. Find the total number of tickets sold on all the four days.

Ⓐ Tickets sold on Ist day = 1094

Tickets sold on IInd day = 1812

Tickets sold on IIIrd day = 2050

Tickets sold on IVth day = 2751

7707

∴ Total tickets sold on four days = 7707

② Shekar is a famous cricket player. He has so far 6980 runs in test matches. He wishes to complete 10,000 runs. How many more runs does he need?

Sol:-

Shekar wishes to complete Runs = 10,000

Shekar so far Scored Runs = 6,980

3020

∴ 3,020 Runs needed to Shekar.

5/7/24

③ In an election, the successfull candidate registered 5,77,500 votes and his rival secured 3,48,700 votes. By what margin did the sucess candidate win the election?

(A)

Sol)

Successfull candidate registed votes = 5,77,500
Nearest candidate registed votes = 3,48,700
(−)
2,28,800

∴ Margin votes of won = 2,28,800 votes

④ kirti bookstore sold books worth ₹ 2,85,891 in the first week of june and books worth ₹ 4,00,768 in the second week of month. How much was the sale for the two weeks together? In which week was the sale greater and by how much?

(A)

Sol)

kirti sold books in Ist week in June = 2,85,891
kirti sold books in IInd week in june = 4,00,768
(+)
∴ TOTAL sale of books in 2 weeks = 6,86,659

Sol)

2nd week was sale greater.
Sale of 2nd week = 4,00,768
Sale of 1st week = 2,85,891
(−)
1,14,877

∴ 1,14,877 books more saled from first week.

⑤ NEW Find the difference between the greatest and the least 5-digit number that can be written using the digits 6, 2, 7, 4, 3 each only once.

(A)

Sol)

Given digits : 6, 2, 7, 4, 3
Greatest 5-digit number = 76,432
Least 5 digit number = 23,467
(−)
52,965

Difference = 52,965

⑥ A machine, on average, manufacture 2,825 screwes a day. How many screwes did it produse in the month of ~~2006~~ January 2006?

⑥ Sol)

Average manufactures of 1 day = 2,825 screws

Manufactures of January 2006 = 2,825 × 31

```
  2,825
×    31
-------
  2825
 8475 x
-------
 87575
-------
```

∴ Total screws manufactures in January 2006 = 87,575

⑦ A merchent had ₹78,592 with her. She placed an order for purchesing 40 radio sets at ₹1200 each. How much money will remain with her after the purchase?

⑦ Sol)

A Merchent had = ₹78,592

Cost of each Radio set = ₹1200

purchase of Radio sets = 40

Cost of 40 Radio sets = 1200 × 40

```
  1,200
×    40
-------
  0000
 4800 x
-------
 48,000
-------
```

∴ Cost of 40 radios = 48,000

Remaing money = 78,592 − 48,000

```
 78592
-48000
-------
 30,592
-------
```

Remaining money of merchant = ₹30,592

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⑨ To stich, 2 m 15 cm cloth is needed. Out of 40 m cloth, how many Shirts can be sticked and how much cloth will remain?

Total cloth = 40 meters

1 meters = 100 cm

40 meters = 40 × 100

= 4,000 cm

each shirt stiching = 2 m 15 cm

= 200 + 15

= 215 cm

No of Shirts Sticked

= 4,000 ÷ 215

```
215)4000(18
 215
 ----
 1850
-1720
 ----
  130
 ----
```

∴ 18 Shirts sticked

Remaining cloth = 130 cm

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4.W

10 Medicine is packed in boxes, each weighting 4kg 500g. How many Shirts can be loaded in a van which cannot carry beyond 800kg?

(A) Sol//

Total ~~box~~ weight of medicine = 800 kgs

1 kg = 1000 grams

800 kgs = 800 x 1000

= 8,00,000 grams

Weight of each box weight of medicine = 4 kg 500 grams

= 4000 grams + 500 grams

= 4500

4500) 8,00,000 (177

4500

35000

-31500

3500

Total boxes = 177

Remaining ~~boxes~~ medicine = 3500 grams

3 kg 500 grams

H.W

(11) The distence between the School and a Studend's house is 1km 875m Everyday She walks both ways. Find the total distence covered by her in six days.

Distance between the School and Student House = 1 Km 875m

She walk in a day = 1.875 x 2

3.750

She walks in 6 days = 3.750 x 6

22.500

∴ She walks in 6 days 22 km 500m.

⑫ A Vessel has 4 liters and 500 ml of curd. In how many glasses, each of 25ml capasity canit be filled?

A Vessel has curd = 4litres 500ml milli litres

Each glass capacity = 25 millilitres

1 litre = 1000 millilitres

4 litres = 4 × 1000 = 4000 + 500ml

= 4500 millilitres

$$\begin{array}{r} 180 \\ 25\overline{)4500} \\ -25\downarrow \\ \hline 200 \\ -200 \\ \hline 000 \\ -0 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 25 \\ \times 2 \\ \hline 50 \end{array} \quad \begin{array}{r} 4000 \\ -500 \\ \hline 4500 \end{array}$$

∴ No: of glasses = 180 glasses

⑧ A Student multiplied 7236 by 65 inset of multiplying by 56. By how much was his answer greater that the correct answer?

$$\begin{array}{r} 25 \\ \times 8 \\ \hline 200 \end{array}$$

Sol

Student 7236 multiplied by = 65

Student original multipliedby = 56

$$\begin{array}{r} 65 \\ -56 \\ \hline 09 \end{array}$$

$$\begin{array}{r} = 65 \\ 56 \\ \hline = 7236 \times \\ 9 \\ \hline 65,124 \end{array}$$

∴ greater answer = 65,124

Gowri
18/7/24