

EXERCISE 1(B)

Question 1.

Population of a city was 3, 54, 976 in the year 2014. In the year 2015, it was found to be increased by 68, 438. What was the population of the city at the end of the year 2015?

Solution:

Population of a city in 2014 = 3,54, 976

Population increased in 2015 = 68, 438

Total population at the end of the year 2015 = 3, 54, 976 + 68, 438 = 423414

$$\begin{array}{r} 3,54,976 \\ + 68438 \\ \hline 423414 \end{array}$$

Question 2.

A = 7,43,000 and B = 8,00,100. Which is greater A or B ? And, by how much?

Solution:

A = 7,43,000

B = 8,00,100

B is greater than A. (B > A)

Because = B – A

Since A = 7, 43, 000 and B = 800,100 and both the numbers have 6 digits.

And at the leftmost, the first number has 7 and the second number has 8.

Since 8 > 7

800, 600 > 7,43,000 (B > A)

B is greater than A by = 800, 100 – 7, 43, 000 = 57, 100

$$\begin{array}{r} 8,00,100 \\ - 7,43,000 \\ \hline 57,100 \end{array}$$

Question 3.

A small and thin notebook has 56 pages. How many total number of pages will 5326 such note-books have?

Solution:

Number of pages in one notebook = 56 pages

Number of pages in 5326 notebooks = 5326 x 56 = 298256 pages

$$\begin{array}{r} 5326 \\ \times 56 \\ \hline 31956 \\ 26630 \times \\ \hline 298256 \end{array}$$

Question 4.

The number of sheets of paper available for making notebooks is 75,000. Each sheet makes 8 pages of a notebook. Each notebook contains 200 pages. How many notebooks can be made from the available paper ?

Solution:

Number of sheets available = 75, 000

Number of pages obtained from one sheet = 8

Total number of pages obtained = $8 \times 75, 000 = 6, 00, 000$

$$\begin{array}{r} 75000 \\ \times 8 \\ \hline 600000 \end{array}$$

Then, number of notebooks made =

$$\frac{\text{Total number of pages obtained}}{\text{No. of pages contained by notebook}}$$

$$= \frac{6,00,000}{200}$$

$$= 3,000 \text{ Ans.}$$

Question 5.

Add 1, 76, 209; 4, 50, 923 and 44, 83, 947

Solution:

$1, 76, 209 + 4, 50, 923 + 44, 83, 947$

$$\begin{array}{r} 176209 \\ + 450923 \\ \hline 4483947 \\ \hline 5111079 \end{array}$$

Adding these values, we get = 51, 11, 079

Question 6.

A cricket player has so far scored 7, 849 runs in test matches. He wishes to complete 10, 000 runs ; how many more runs does he need ?

Solution:

Score of cricket player = 7, 849 runs

Total scores he wish to complete = 10,000

Runs required = $10, 000 - 7, 849 = 2151$

$$\begin{array}{r} 10,000 \\ - 7849 \\ \hline 2151 \end{array}$$

Question 7.

In an election two candidates A and B are the only contestants. If candidate A scored 9, 32, 567 votes and candidates B scored 9, 00, 235 votes, by how much margin did A win or lose the election ?

Solution:

Scores of candidate A = 9,32,567

Scores of candidate B = 9,00,235

Candidate A win the election By margin = 9,32,567 - 9,00,235 = 32,332 scores

$$\begin{array}{r} 932567 \\ - 900235 \\ \hline 32332 \end{array}$$

Question 8.

Find the difference between the largest and the smallest number that can be written using the digits 5, 1, 6, 3 and 2 without repeating any digit.

Solution:

The digits given are = 5, 1, 6, 3 and 2

The largest 5-digit number that can be formed using the digits 5, 1, 6, 3 and 2 = 65321

The smallest 5-digit number that can be formed using the digits 5, 1, 6, 3 and 2 = 12356

Difference between 65321 and 12356

$$\begin{array}{r} 65321 \\ - 12356 \\ \hline 52965 \end{array}$$

$$= 65321 - 12356 = 52,965$$

Question 9.

A machine manufactures 5,782 screws every day. How many screws will it manufacture in the month of April ?

Solution:

Number of screws in one day = 5, 782

Number of days in April = 30 days

Number of screws in April = 5, 782 x 30 = 1,73,460

$$\begin{array}{r} 5782 \\ \times 30 \\ \hline 0000 \\ 17346 \times \\ \hline 173460 \end{array}$$

Question 10.

A man had ₹ 1, 57, 184 with him. He placed an order for purchasing 80 articles at 125

each. How much money will remain with him after the purchase?

Solution:

Money in hand = ₹ 1, 57, 184

Number of articles purchased = 80

Cost of one article = ₹ 125

Cost of 80 articles = ₹ 80 x 125 = ₹ 10,000

$$\begin{array}{r} 125 \\ \times 80 \\ \hline 000 \\ 1000 \times \\ \hline 10000 \end{array}$$

∴ Remaining money = Money in hand –
cost of 80 articles

$$= 1,57,184 - 10,000$$

$$= 1,47,184 \text{ Ans.}$$

$$\begin{array}{r} 1,57,184 \\ - 10,000 \\ \hline 1,47,184 \end{array}$$

Question 11.

A student multiplied 8,035 by 87 instead of multiplying by 78. By how much was his answer greater than or less than the correct answer?

Solution: Correct answer = 8,035 x 87 = 6,99,045

$$\begin{array}{r} 8,035 \\ \times 87 \\ \hline 56245 \\ 64280 \times \\ \hline 699045 \end{array}$$

Wrong answer = 8,035 x 78 =

$$\begin{array}{r} 8,035 \\ \times 78 \\ \hline 64280 \\ 56245 \times \\ \hline 626730 \end{array}$$

∴ Correct answer is greater than the
wrong answer by = 6,99,045 – 6,26,730

$$= 72,315$$

$$\begin{array}{r} 6,99,045 \\ - 6,26,730 \\ \hline 72,315 \end{array}$$

Question 12.

Mohani has 30 m cloth and she wants to make some shirts for her son. If each shirt requires 2 m 30 cm cloth, how many shirts, in all, can be made and how much length of cloth will be left?

Solution:

Total length of cloth available = 30 m or $30 \times 100 = 3000$ cm

Shirt made by using 2m 30cm (230 cm) cloth = 1

Shirts made by using 30 m cloth = $\frac{1}{230} \times 3000 = 13.04 = 13$ shirts

Cloth required to make 13 shirts = $230 \times 13 = 2990$ cm or 29 m 90 cm

Hence, remaining cloth = $30 \text{ m} - 29 \text{ m} = 1 \text{ m}$

Question 13.

The weight of a box is 4 kg 800 gm. What is the total weight of 150 boxes?>

Solution:

Weight of one box = 4 kg 800 gm

Total weight of 150 boxes = $4 \text{ kg } 800 \text{ g} \times 150 = 720 \text{ kg}$

$$\begin{array}{r} 4 \text{ kg } 800 \text{ g} \\ \times \quad 150 \\ \hline 720 \text{ kg } 000 \text{ g} \end{array}$$

Question 14.

The distance between two places A and B is 3 km 760 m. A boy travels A to B and then B to A every day. How much distance does he travel in 8 days?

Solution:

Distance between two places = 3 km 760 m 3760 m

Distance among A to B and B to A = $2 \times 3760 \text{ m} = 7520 \text{ m}$

In 8 days he travelled = $7520 \times 8 = 60160 \text{ m}$ or 60 km 160 m

Question 15.

An oil-tin contains 6 litre 60 ml oil. How many identical bottles can the oil fill, if capacity of each bottle is 30 ml?

Solution:

Oil contained in a tin = 6 litre 60 ml = $6 \times 1000 + 60 = 6060$ ml

Capacity of each bottle = 30 ml

No. of bottled can be filled with 30 ml oil = $6060 \div 30 = 202$ bottles

$$\begin{array}{r} \overline{)3\overline{)6060}(202} \\ \underline{30} \\ 60 \\ \underline{60} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

Question 16.

The sale receipt of a company in a certain year was ₹ 83, 73, 540. In the following year, it was decreased by ₹ 7, 84, 670.

- (i) What was the sale receipt of the company during second year?
- (ii) What was the total sale receipt of the company during these two years?

Solution:

Sale receipt of the company during first year = ₹ 83,73,540

Sale decreased in second year = ₹ 7,84,670

- (i) The sale receipt of the company during second year = ₹ 83,73,540 - ₹ 7,84,670

₹83,73,540
- ₹7,84,670
₹75,88,870

- (ii) Total sale receipt of the company during these two years = ₹ 83, 73, 540 + ₹ 75, 88, 870 = ₹ 1, 59, 62, 410

₹83,73,540
+ ₹75,88,870
₹1,59,62,410

Question 17.

A number exceeds 8, 59, 470 by 3, 00, 999. What is the number?

Solution:

First number = 8, 59, 470

Difference between second and first number = 3, 00, 999

Second number = 8, 59, 470 + 3, 00, 999 = 11, 60, 469