

EXERCISE 1(B)

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1. Population of a city was 354976 in the year 2014. In the year 2015, it increased by 68438. What was the population of the city at the end of the year 2015?

Solution:

Population of a city in the year 2014 = 354976

Population increased in the year 2015 = 68438

Total population at the end of the year 2015 = 354976 + 68438 = 423414

$$\begin{array}{rcccccc} & 3 & 5 & 4 & 9 & 7 & 6 \\ + & & 6 & 8 & 4 & 3 & 8 \\ \hline & 4 & 2 & 3 & 4 & 1 & 4 \end{array}$$

2. $A = 743000$ and $B = 800100$. Which is greater A or B? And by how much?

Solution:

Given

A = 743000

B = 800100

B is greater than A i.e. ($B > A$)

Since both the numbers have 6-digits numbers

At the leftmost, the first number has 7 and the second number has 8

We know that,

 $8 > 7$

Hence, $800100 > 743000$ i.e $B > A$

B is greater than A by = $800100 - 743000$

$$= 57100$$

	8	0	0	1	0	0
-	7	4	3	0	0	0
		5	7	1	0	0

3. A notebook has 56 pages. How many pages will 5326 such note-books have?

Solution:

Given

Number of pages in a note-book = 56 pages

Number of pages in 5326 note-books = 5326×56

= 298256 pages

$$\begin{array}{r}
 5 3 2 6 \\
 \times 5 6 \\
 \hline
 3 1 9 5 6 \\
 2 6 6 3 0 \times \\
 \hline
 2 9 8 2 5 6
 \end{array}$$

4. A person has 75000 sheets of paper. If each sheet makes 8 pages of a note book, how many note-books of 200 pages can be made using the above sheets?

Solution:

Given

Number of sheets of paper available = 75000

Number of pages obtained from one sheet of paper = 8

Total number of pages obtained = 8×75000

= 600000

$$\begin{array}{r}
 7 5 0 0 0 \\
 \times 8 \\
 \hline
 6 0 0 0 0 0
 \end{array}$$

We know that,

Number of notebooks made = (Total number of pages obtained) / (Number of pages contained by notebook)

= $(600000) / (200)$

= 3000

5. Add 176209; 450923; and 4483947

Solution:

$$\begin{array}{r}
 1 7 6 2 0 9 \\
 4 5 0 9 2 3 \\
 + 4 4 8 3 9 4 7 \\
 \hline
 5 1 1 1 0 7 9
 \end{array}$$

Sum of $176209 + 450923 + 4483947 = 5111079$

Therefore adding these values we get = 5111079

6. A cricket player has so far scored 7849 runs in test matches. He wishes to complete 10000 runs, how many more runs does he need?

Solution:

Given

A cricket player scored = 7849 runs
Total score he wish to complete = 10000
Runs required = $10000 - 7849 = 2151$ runs

$$\begin{array}{r} \\ \\ \hline \\ \\ \hline \end{array}$$

Hence, a cricket player needs 2151 more runs to complete 10000 runs

7. In an election two candidates A and B are the only contestants. If candidate A scored 932567 votes and candidate B scored 900235 votes, by how much margin did A win or lose the election?

Solution:

Votes scored by candidate A = 932567

Votes scored by candidate B = 900235

Since votes scored by candidate A is more than B. Hence, candidate A win the election

Candidate A win the election by margin = $932567 - 900235$
= 32332 votes

$$\begin{array}{r} \\ \\ \hline \\ \\ \hline \end{array}$$

8. Find the difference between the largest and the smallest five digits numbers that can be formed using the digits 5, 1, 6, 3 and 2 without repeating any digit.

Solution:

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

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

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

Difference between 65321 and 12356

$$\begin{array}{r} \\ \\ \hline \\ \\ \hline \end{array}$$

= $65321 - 12356$

= 52965

9. A machine manufactures 5782 screws every day. How many screws will it manufacture in the month of April?

Solution:

Number of screws manufactured in a day = 5782

Number of days in April = 30 days

Number of screws manufactured in April = 5782×30
= 173460

$$\begin{array}{r}
 \times \\
 \\
 \hline
 1 \\
 1 \\
 \hline
 1
 \end{array}$$

Hence, a machine manufactures 173460 screws in the month of April

10. A man has ₹ 157184 with him. He placed an order for purchasing 80 articles at ₹ 125 each. How much money will remain with him after the purchase?

Solution:

A man has = ₹ 157184

Number of articles purchased by him = 80

Cost of one article = ₹ 125

Cost of 80 articles will be = 80×125
= ₹ 10000

$$\begin{array}{r}
 \times \\
 \\
 \hline
 1 \\
 1 \\
 \hline
 1
 \end{array}$$

Remaining money with him after the purchase = Money in hand – Cost of 80 articles
= $157184 - 10000$
= 147184

$$\begin{array}{r}
 - \\
 \\
 \hline
 1 \\
 1 \\
 \hline
 1
 \end{array}$$

11. A student multiplied 8035 by 87 instead of multiplying by 78. By how much was his answer greater than or less than the correct answer?

Solution:

Correct answer = 8035×87
= 699045

		8	0	3	5
	×			8	7
	5	6	2	4	5
6	4	2	8	0	×
6	9	9	0	4	5

Wrong answer = 8035×78
= 626730

		8	0	3	5
	×			7	8
	6	4	2	8	0
5	6	2	4	5	×
6	2	6	7	3	0

Hence, correct answer greater than the wrong answer by = $699045 - 626730$
= 72315

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 with Mohani = 30 m
= 30×100
= 3000 cm

Each shirt requires = 2 m 30 cm
= 200 cm + 30 cm
= 230 cm cloth

Shirts made by using 30 m cloth = $(1 / 230) \times 3000$
= 13.04
= 13 shirts

Cloth required to make 13 shirts = 230×13
= 2990 cm or 29 m 90 cm

∴ Remaining cloth = 30 m – 29 m
= 1 m

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

Solution:

Weight of a box = 4 kg 800 gm

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

		4	8	0	0
×			1	5	0
		0	0	0	0
2	4	0	0	0	×
4	8	0	0	×	
7	2	0	0	0	0

Hence, the total weight of 150 such boxes is 720 kg

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

Solution:

Distance between two places A and B = 3 km 760 m

= 3760 m

Distance between A to B and B to A = 2×3760 m

= 7520 m

Distance travelled by a boy in 8 days = 7520×8

= 60160 m

= 60.16 km

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

Solution:

An oil-tin contains = 6 litre 60 ml

= $6 \times 1000 + 60$

= 6060 ml

Capacity of each bottle = 30 ml

Number of bottles can be filled with 30 ml oil = $6060 \div 30$

= 202 bottles

$$\begin{array}{r} 30 \overline{) 6060} \quad 202 \\ \underline{6060} \\ 0 \end{array}$$