Answer the questions

(1) Solve the following questions

A) \[ \begin{array}{c}
9 & 4 & 3 & 5 & 3 \\
+ & 2 & 4 & 1 & 2 & 4 \\
\hline
\end{array} \]

B) \[ \begin{array}{c}
4 & 6 & 5 & 4 & 5 \\
+ & 9 & 3 & 8 & 5 & 9 \\
\hline
\end{array} \]

C) \[ \begin{array}{c}
3 & 0 & 9 & 5 & 9 \\
+ & 6 & 5 & 3 & 0 & 4 \\
\hline
\end{array} \]

D) \[ \begin{array}{c}
7 & 1 & 5 & 8 & 5 \\
+ & 8 & 9 & 6 & 9 & 4 \\
\hline
\end{array} \]

E) \[ \begin{array}{c}
8 & 1 & 4 & 1 & 1 \\
+ & 5 & 5 & 5 & 4 & 1 \\
\hline
\end{array} \]

F) \[ \begin{array}{c}
6 & 1 & 6 & 0 & 3 \\
+ & 7 & 5 & 2 & 9 & 4 \\
\hline
\end{array} \]

(2) Arrange the following numbers in ascending order:
583435, 893571, 279410, 500155, 7643434, 1565597

(3) There are 359227 men, 525073 women and 601426 children in a town. What is the total population of that town?

(4) Arrange the following numbers in Ascending Order:
99243375, 61273950, 47181476, 24192058, 77254508, 40914310

Choose correct answer(s) from given choice

(5) Which of the following numbers is smaller than 45924208 and larger than 45924108?

a. 45930148  

b. 45924148  

c. 45920148  

d. 45923748  

(6) The number 2435955 in expanded form is represented as :

a. two million four hundred thirty-five thousand and nine hundred fifty-five  

b. 2000000 + 400000 + 30000 + 5000 + 900 + 50 + 5  

c. \[ \text{\underline{2435955}} \]  

d. 2435955

(7) If you add 10 to the largest number that can be formed by using the digits 6, 8, 5, 7, 4, then what is the resulting sum?

a. 45688  

b. 78664  

c. 87564  

d. 87556  

(8) There are 11768 bags of pulses and 53029 bags of wheat in a store. What is the total number of bags in the store?

a. 63797  

b. 66797  

c. 64797  

d. 67413
Fill in the blanks

(9) Honesto's dad has recently constructed his house in Zamboanga City. He has bought the land for Rs. 436360, paid Rs. 248464 for the building material and Rs. 939134 for construction cost. He has also paid Rs. 59928 as government taxes. The total cost of the house was Rs. __________.

(10) In all, there are __________ 6-digit whole numbers in the number system.

(11) Arnel's dad bought the house for ₱571483. After a few years he sold it for ₱41806 less than what he had paid for it. He sold the house for ₱__________.

(12) In the Detroit auto show, 55739 visitors came on Wednesday, 76748 visitors came on Thursday, 75666 visitors came on Friday and 57508 visitors came on Saturday. In total, __________ visitors visited the Detroit auto show?

(13) The number just after the smallest 8-digit number is __________.

(14) Lilibeth is traveling to her hometown. Lilibeth has to travel 2026 Km on Highway number 6, 1342 Km on Highway number 26, and 6097 Km on highway number 39 and 9785 Km within the town to get to her home. The total distance Lilibeth needs to travel to reach her home is __________ km.

(15) Fill in the empty boxes

A) \[ \begin{array}{c}
2 & \square & \square & \square & 2 & 4 \\
+ & 5 & 5 & \square & 1 \\
\hline
4 & 8 & 4 & \square & 1 & 1
\end{array} \]

B) \[ \begin{array}{c}
4 & \square & 9 & \square & \square & \square \\
+ & \square & 0 & 9 & 4 \\
\hline
7 & 6 & 3 & 6 & 4
\end{array} \]

C) \[ \begin{array}{c}
\square & \square & \square & 1 & \square & \square \\
+ & 1 & 5 & 3 & 1 & \square \\
\hline
8 & 5 & 1 & \square & 7 & 4
\end{array} \]

D) \[ \begin{array}{c}
\square & \square & 1 & 1 & \square & 8 \\
+ & 5 & 4 & 7 & 8 & 3 & 9 \\
\hline
9 & 3 & 8 & \square & 9 & \square
\end{array} \]

E) \[ \begin{array}{c}
\square & \square & 6 & 2 & 3 & \square & 6 \\
+ & \square & 5 & 0 & 6 & 6 \\
\hline
4 & 7 & 8 & \square & 9 & \square & 4
\end{array} \]

F) \[ \begin{array}{c}
\square & \square & 4 & 6 & 6 & 7 \\
+ & 2 & 1 & \square & \square & 1 \\
\hline
9 & 4 & 6 & \square & \square & \square
\end{array} \]

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Answers

(1) A) 118477  
B) 140404  
C) 96263  
D) 161279  
E) 136952  
F) 136897

(2) 279410, 500155, 583435, 893571, 1565597, 7643434

**Step 1**  
To compare two large numbers following steps can be used,  
- First compare number of digits. Number with more digits will be larger.  
- If number of digits are same, compare the most significant (left-most) digit. Number with higher digit at this place will be larger.  
- If left-most digits are same, compare next digit (towards right), until we find a case where digits differ  

**Step 2**  
Numbers of digit count = 6, 
583435, 893571, 279410, 500155  
On sorting these numbers based on their digits, 
Numbers in ascending order = 279410, 500155, 583435, 893571

**Step 3**  
Numbers of digit count = 7,  
7643434, 1565597  
On sorting these numbers based on their digits, 
Numbers in ascending order = 1565597, 7643434

**Step 4**  
On merging the list of numbers in ascending orders, we get all the numbers in ascending order as following,  
279410, 500155, 583435, 893571, 1565597, 7643434

(3) 1485726

**Step 1**  
The population of a town includes all men, women and children of that town.

**Step 2**  
This means, the total population of the town = The number of men + The number of women + The number of children = 359227 + 525073 + 601426  
= 1485726

(4) 24192058, 40914310, 47181476, 61273950, 77254508, 99243375

(5) b. 45924148

(6) b. 2000000 + 400000 + 30000 + 5000 + 900 + 50 + 5
(7) c. 87664

**Step 1**
Let us first find the largest number that can be formed by using the digits 6, 8, 5, 7, 4. Such number can be found by writing the digits in decreasing order from left to right. Thus, the number is = 87654

**Step 2**
The resulting sum after adding 10 is given by:
Sum = 87654 + 10
= 87664

**Step 3**
Therefore, the resulting sum is **87664**.

(8) c. 64797

**Step 1**
We have two types of bags in the store: bags of pulses and bags of wheat.

**Step 2**
The total number of bags = The number of bags of pulses + The number of bags of wheat.
= 11768 + 53029
= 64797.

(9) 1683886

**Step 1**
Honesto’s dad had to pay money for four different things to build his house. He had to pay money for:
• Land
• Building material
• Construction
• Government tax.

**Step 2**
Total cost of the house is the sum of all these expenses.

**Step 3**
This means, total cost of the house = Rs. 436360 + Rs. 248464 + Rs. 939134 + Rs. 59928
= 1683886.
Step 1
The largest 6-digit number is 999999.

Step 2
The smallest 6-digit number is 100000.

Step 3
In order to find the number of 6-digit numbers, we must find the difference between the largest 6-digit number and the smallest 6-digit number and add one to the difference.

Step 4
Therefore, the number of 6-digit numbers:
\[ = (\text{Largest 6-digit number} - \text{Smallest 6-digit number}) + 1 \]
\[ = (999999 - 100000) + 1 \]
\[ = 900000 \]

Step 5
Hence there are 900000 6-digit numbers in the number system.

Step 1
In Detroit auto show many visitors came on different days.

Step 2
The total number of visitors = Visitors that came on Wednesday + Visitors that came on Thursday + Visitors that came on Friday + Visitors that came on Saturday
\[ = 55739 + 76748 + 75666 + 57508 \]
\[ = 265661 \]

Step 3
Therefore, the total number of visitors that came in Detroit auto show were 265661.

Step 1
For a number to be as small as possible, all of its digits should be as small as possible. Therefore smallest 8 digit number should have been 00000000, but since this is zero, for it to be a valid 8 digit number, we should set first digit to next possible smallest number that is 1.
Therefore smallest 8-digit number is 10000000

Step 2
The number just after the smallest 8-digit number will be one more than it, that is:
\[ = 10000000 + 1 \]
\[ = 10000001 \]

Step 3
Thus, the number just after the smallest 8-digit number is 10000001.
Step 1
Lilibeth has to travel through three highways and one road in her town to reach her home.

Step 2
To find the total distance she will need to travel, we will need to add all distances she
covers on all three highways and the road in her town.

Step 3
This means, the total distance she will need to travel = 2026 + 1342 + 6097 + 9785 =
19250 km.

A) 
\[
\begin{array}{cccccc}
2 & 4 & 7 & 9 & 2 & 4 \\
+ & 5 & 5 & 7 & 1 & \\
\hline
2 & 4 & 8 & 4 & 8 & 1 \quad \text{A11} \\
\end{array}
\]

B) 
\[
\begin{array}{cccccc}
4 & 6 & 9 & 2 & 7 & 0 \\
+ & 7 & 0 & 9 & 4 & \\
\hline
4 & 7 & 6 & 3 & 6 & 4 \\
\end{array}
\]

C) 
\[
\begin{array}{cccccc}
8 & 3 & 6 & 1 & 6 & 1 \\
+ & 1 & 5 & 3 & 1 & 3 \\
\hline
8 & 5 & 1 & 4 & 7 & 4 \\
\end{array}
\]

D) 
\[
\begin{array}{cccccc}
8 & 8 & 4 & 1 & 1 & 5 \\
+ & 5 & 4 & 7 & 8 & 3 \\
\hline
9 & 3 & 8 & 8 & 9 & 9 \quad \text{A15} \\
\end{array}
\]

E) 
\[
\begin{array}{cccccc}
4 & 6 & 2 & 3 & 8 & 8 \\
+ & 1 & 6 & 5 & 0 & 6 \\
\hline
4 & 7 & 8 & 8 & 9 & 4 \\
\end{array}
\]

F) 
\[
\begin{array}{cccccc}
7 & 4 & 6 & 6 & 7 \\
+ & 2 & 1 & 8 & 0 & 1 \\
\hline
9 & 6 & 4 & 6 & 8 \\
\end{array}
\]