Chapter 4: Thousands Around Us

Page 39

Q. The donations are shown in the table below. Write the number in each case.

| Donations | Quantity | Number |
|-----------|---------------------------------------|--------|
| REF | | |
| | 4 Ones + 7 Tens | |
| 109 | 44444 // | |
| ÓR | 100 – 7 | |
| Ø | | |
| | ØØ ///// | |
| O OIL | Twelve | |
| ¢ 600 550 | 10+10+10+10+10 | |
| C 550 550 | 60 ? 70 | |
| | Ten more than three hundred twelve | |

Answer:

| Donations | Quantity | Number |
|----------------|---------------------------------------|-------------------|
| REE | | 39 |
| HILAT FLOUR | 4 Ones + 7 Tens | 4 + 70 = 74 |
| 5 19 19 | 4444 // 4444 // | 103 |
| ÓB | 100 – 7 | 93 |
| | | 482 |
| | ØØ ///// | 25 |
| 0 01 | Twelve | 12 |
| er and su | 10+10+10+10+10 | 50 |
| C 550 550 | 60 ? 70 | 65 |
| To | Ten more than three hundred twelve | 312 + 10 = 322 |

Q. Write the time and draw the number of people who had food at different time slots using HTO blocks as shown below.



The time slot when the most number of people came for lunch is ______. The time slot when the least number of people came for lunch is ______.

Solution:



The time slot when the most number of people came for lunch is 1:30 to 02:00. The time slot when the least number of people came for lunch is 12:00 to 12:30.

Let Us Do

1. (a) Make 3-digit numbers using the digits 3 and 7. Write the numbers in the boxes given below. Circle the smallest and cross out the largest.



1. (b) Make six 3-digit numbers using the digits 3, 5, 0, 8 such that all numbers are less than 550. You can repeat the digits.



1. (c) Mark the numbers you made in 1(b) on the number line.



2. Fill in the blanks with appropriate numbers.**(a)**



Solution:



(b)



Solution:



(c)





(d)



Solution:



(e)



Solution:



Page 43

 ${\bf Q}.$ You remember that Gulnaz and Jaspreet had kept track of the people who came for the community lunch.

Let us see how they did it.



How many people came for the community lunch? ______ Solution:

1032 people came for the community lunch.

Q. Fill in the blanks with appropriate numbers.



Solution:



Page 44

3. Identify the range of numbers most suitable for the following situations. Share your thoughts.



Do it yourself

Q. Identify things around you that are more than 1000 in number.

Solution:

Grains of rice, hair on a head, leaves on a tree, words in a book, threads in a piece of fabric, ants in a colony etc.

Page 47

Let Us Break Up One-Thousand

| (a) We are at 900. How much more to make 1000? 900 + = 1000 Solution: 100 (because 1000 – 900 = 100) |
|--|
| (b) Mark 800.How much more to make 1000? 800 + = 1000 Solution: 200 (because 1000 - 800 = 200) |
| (c) Mark 850. How much more to 1000? 850 + = 1000 Solution: 150 (because 1000 – 850 = 150) |
| (d) Mark 760. How much more to 1000? 760 + = 1000 Solution: 240 (because 1000 -760 = 240) |
| (e) Mark 400. How much less is 400 than 1000? 1000 – = 400 Solution: 600 |

(because 1000 - 400 = 600)

(f) Complete the addition facts leading to 1000.



Solution:

(i) 497 + <u>503</u> = 1000 (because 1000 - 497 = 503)

(ii) 895 + <u>105</u> = 1000 (because 1000 - 895 = 105)

(iii) 775 + <u>225</u> = 1000 (because 1000 - 775 = 225)

(iv) 980 + <u>20</u> = 1000 (because 1000 - 980 = 20)

(v) 500 + <u>500</u> = 1000 (because 1000 - 500 = 500)

(vi) <u>250</u> + <u>750</u> = 1000

(vii) 830 + <u>170</u> = 1000 (because 1000 - 830 = 170)

(viii) 670 + 330 = 1000(because 1000 - 670 = 330)



F

Grouping And Regrouping

Q. Look at the pictures below. Circle as many groups of 10 Ones or 10 Tens as possible. Write the final number against the following pictures.





(a)

Q. Circle groups of ten 1s, 10s, and 100s as many times as required in each of the following pictures. Fill in the empty boxes.



(b)



Solution:



(c)



1 Ten and 27 Ones





1 Ten and 27 Ones



(d)



| Hundreds | indreds Tens | | | | | |
|----------|--------------|---|--|--|--|--|
| 1 | 0 | 6 | | | | |
| 106 | | | | | | |

Page 50

(e)







| Hundreds | Tens | Ones |
|----------|------|------|
| 1 | 2 | 4 |
| | | |

(f)



| 1 Hundred , 7 | 12 Tens ar reds +3 Ones = _2; | d 14 Ones | | | | | |
|----------------------|--|------------------|--|--|--|--|--|
| Hundreds Tens Ones | | | | | | | |
| 2 | 3 | 4 | | | | | |
| 234 | | | | | | | |

Let Us Solve

Q. Identify and write the numbers for each of the following in your notebook. Draw pictures like these, if needed.

a) 45 Ones
b) 39 Ones
c) 35 Tens
d) 86 Tens
e) 10 Tens and 1 Ones
f) 15 Tens and 23 Ones
g) 34 Tens and 12 Ones
h) 19 Tens and 10 Ones
i) 2 Hundreds, 13 Tens and 7 Ones
Solution:

- (a) 45 Ones = 45.
- (b) 39 Ones = 39.
- (c) 35 Tens = 350.
- (d) 86 Tens = 860.
- (e) 10 Tens and 1 Ones = 100 + 1 = 101.
- (f) 15 Tens and 23 Ones = 150 + 23 = 173.
- (g) 34 Tens and 12 Ones = 340 + 12 = 352.
- (h) 19 Tens and 10 Ones = 190 + 10 = 200.
- (i) 2 Hundreds, 13 Tens and 7 Ones = 200 + 130 + 7 = 337.

Numbers Beyond 1000 (One Thousand)

Q. Look at the table below and fill in the blanks.

| Tokens | Expanded Form | Th | н | т | ο | Number | Number Name |
|---|----------------------|----|---|---|---|--------|-----------------------------|
| 1 1000 | 1000 + 1 | | | | | 1001 | |
| 1 1000 | | | | | | 1002 | |
| | | | | | | 1003 | |
| | | 1 | 0 | 0 | 5 | | |
| 1000 10 | | | | | | | |
| 100 1000 | 1000 + 100 | | | | | 1100 | One Thousand One Hundred |
| | | | | | | 1038 | |
| 1000 100 100 100 1 1 100 | | | | | | | |
| 1000 1 1 10 1 1000 1 1 1 1 1 1 1000 1 | 3000 + 0 + 10 + 9 | | | | | | |
| 1000 100 100 10 1000 100 10 1000 10 100 100 1000 100 1 100 100 1 100 100 1 100 100 1 100 1 10 1 100 1 1 | | | | | | | |
| 1000 10 1000 10 10 1000 10 1000 10 1000 10 1000 1000 10 10 1000 10 10 1000 10 10 | | | | | | | |

| Tokens | Expanded Form | Th | н | т | ο | Number | Number Name |
|---|------------------------|----|---|---|---|--------|--|
| 1 1000 | 1000 + 1 | 1 | 0 | 0 | 1 | 1001 | One thousand one |
| 1 1000 | 1000 + 2 | 1 | 0 | 0 | 2 | 1002 | One thousand two |
| | 1000 + 3 | 1 | 0 | 0 | 3 | 1003 | One thousand three |
| | 1000 + 5 | 1 | 0 | 0 | 5 | 1005 | One thousand five |
| 1000 10 | 1000 + 10 | 1 | 0 | 1 | 0 | 1010 | One thousand five |
| 100 1000 | 1000 + 100 | 1 | 1 | 0 | 0 | 1100 | One Thousand One Hundred |
| 1000 10 10 1 10 1 1 1 1 1 1 1 | 1000 + 30 + 8 | 1 | 0 | 3 | 8 | 1038 | One thousand thirty-eight |
| 1000 100 100 100 1 1 100 | 1000 + 400 + 2 | 1 | 4 | 0 | 2 | 1402 | One thousand four hundred two |
| 1000 1 1 10 1 1000 1 1 1 1 1 1 1 1000 1 1 1000 | 3000 + 0 + 10 + 9 | 3 | 0 | 1 | 9 | 3019 | Three thousand nineteen |
| 1000 100 100 10 1000 100 10 1000 100 100 100 1000 100 1 100 100 1 100 100 1 100 100 1 100 10 1 1 10 1 1 | 6000 + 600 + 60 + 6 | 6 | 6 | 6 | 6 | 6666 | Six thousand six hundred sixty-six |
| 1000 10 1000 10 10 1000 10 1000 10 10 1000 10 1000 10 10 1000 10 10 1000 10 10 1000 10 10 | 9000 + 90 | 9 | 0 | 9 | 0 | 9009 | Nine thousand nine |

Write the numbers in a sequence—forward and backward as indicated.
 a)



Solution:





Solution:



Page 54



Solution:







Let Us Think

 Ram wrote 7 Thousand 0 Hundreds 2 Tens 4 Ones as 724. Is this correct? Write the correct number
 Solution: 7 Thousand 0 Hundreds 2 Tens 4 Ones = 7000 + 20 + 4 = 7024. No, the correct number is 7024.

2. Richa wrote 5 Thousand 6 Hundreds 0 Tens 3 Ones as 563. Is this correct? Write the correct number
Solution:
5 Thousand 6 Hundreds 0 Tens 3 Ones = 5000 + 600 + 3 = 5603. No, the correct number is 5603.

Page 55

Number Line

Which of these numbers lie between 2226 and 3226? Circle the correct answers.
 3316 3236 2236 2216 3126 3216
 Solution:

```
3316 3236 2236 2216 3126 3216
```

2. Do as instructed.

a) 1001 and 1038 are marked on the number line. Try to mark 1043, 1069, and 1084 on the same number line.



b) Mark the following numbers on the number line below. 2025, 2080, 2175, 2245, 2295, 2310, 2390, 2430, 2460



c) Mark the following numbers on the number line below. 5512, 5548, 5590, 5636, 5673, 5695



Solution:



d) Mark the following numbers on the number line below. 8679, 8990, 8923, 8763



Let Us Play

Q. What cards are used to make 4085? Write it in expanded form and in words. Solution:

4085 = 4000 + 80 + 5.

Four thousand eighty-five.

Find Me! Read aloud the numbers and locate them in the grid.

- 1. The number 3782.
- 2. Two thousand five hundred and seventy-six.
- 3. A 4-digit number with all digits the same.
- 4. The smallest 4-digit number in this table.
- 5. The largest 4-digit number in this table.
- 6. A number more than 5000 and less than 5200.
- 7. A number between 5600 and 6300.

8. A 4-digit number all of whose digits can be found on a die.

Solution:

| 1. 3782 | | | | | _ |
|---------|---|---|---|---|---|
| 2. 2576 | 1 | 2 | 3 | 4 | 8 |
| 3. 2222 | 5 | 7 | 2 | 0 | (|
| 4. 1008 | | ' | 4 | | - |
| 5. 9672 | 2 | 5 | 7 | 6 | (|
| 6. 5010 | 1 | 6 | 1 | a | 6 |
| 7. 5720 | | 0 | 1 | | Ľ |
| 8. 1234 | 0 | 5 | 0 | 1 | (|
| | 1 | 3 | 0 | 1 | 2 |

| 1 | 2 | 3 | 4 | 8 | 0 | 3 | 9 |
|---|---|---|---|---|---|---|---|
| 5 | 7 | 2 | 0 | 2 | 5 | 7 | 6 |
| 2 | 5 | 7 | 6 | 0 | 3 | 8 | 7 |
| 1 | 6 | 1 | 9 | 2 | 2 | 2 | 2 |
| 0 | 5 | 0 | 1 | 0 | 1 | 1 | 1 |
| 1 | 3 | 0 | 1 | 2 | 1 | 1 | 1 |
| 9 | 4 | 8 | 3 | 6 | 1 | 1 | 1 |

Let Us Solve

1. Use tokens of 1s, 10s, 100s, 1000s to identify the numbers and write them in the table.

- a) 6 Tens and 22 Ones
- b) 4 Tens and 12 Ones
- c) 3 Hundreds, 14 Tens, and 8 Ones
- d) 12 Hundreds, 18 Tens, and 2 Ones
- e) 1 Thousand, 5 Hundreds, 10 Tens, and 17 Ones

| 1 | 2 | 3 | 4 | 8 | 0 | 3 | 9 |
|---|---|---|---|---|---|---|---|
| 5 | 7 | 2 | 0 | 2 | 5 | 7 | 6 |
| 2 | 5 | 7 | 6 | 0 | 3 | 8 | 7 |
| 1 | 6 | 1 | 9 | 2 | 2 | 2 | 2 |
| 0 | 5 | 0 | 1 | 0 | 1 | 1 | 1 |
| 1 | 3 | 0 | 1 | 2 | 1 | 1 | 1 |
| 9 | 4 | 8 | 3 | 6 | 1 | 1 | 1 |

| | Th | н | т | ο | Number |
|---|----|---|---|---|--------|
| a | 0 | 0 | 8 | 2 | 82 |
| ь | | | | | |
| с | | | | | |
| đ | | | | | |
| е | | | | | |

| | Th | н | Т | ο | Number |
|---|----|----|---|---|--------|
| a | 0 | 0 | 8 | 2 | 82 |
| b | 0 | 0 | 5 | 2 | 52 |
| с | 0 | 4 | 4 | 8 | 448 |
| d | 0 | 13 | 8 | 2 | 1382 |
| e | 1 | 6 | 1 | 7 | 1617 |

Q.

| 2A. Circle the number that is bigger. | | | | | |
|---------------------------------------|----|------|--|--|--|
| 30 | or | 300 | | | |
| 6000 | or | 600 | | | |
| 6000 | or | 3000 | | | |

| 2B. Circle the number that is smaller. | | | | | | |
|--|----|-------------|--|--|--|--|
| 2 Ones | or | 2 Hundreds | | | | |
| 5 Tens | or | 2 Thousands | | | | |
| 7 Tens | or | 4 Hundreds | | | | |





COMPARING NUMBERS

Q. Jaspreet and Gulnaz help to keep a record of the number of plates used in the Gurudwara every month. Use the signs <and> to find the month when a larger number of plates were used.



Q.

| | | | | | | W bigge | hy is 31 er than 3 | 02 1012? / |
|----|------|---|---|------------|----|------------|-----------------------|------------------|
| | 3012 | | | | | 310 |)2 🖌 | |
| Th | Н | Т | 0 | \bigcirc | Th | Н | Т | 0 |
| 3 | 0 | 1 | 2 | | 3 | 1 | 0 | 2 |

Describe how you decided which number is the bigger one. Which position (Th, H, T, O) helped you to decide this?

| | | | | | | W bigge | hy is 31 er than 3 | 02 10127 / |
|------|---|---|---|-------------------|-----|------------|-----------------------|------------------|
| 3012 | | | | | 310 |)2 🖌 | | |
| Th | Н | Т | 0 | $\langle \rangle$ | Th | Н | Т | 0 |
| 3 | 0 | 1 | 2 | | 3 | 1 | 0 | 2 |

3102 is greater than 3012. The hundreds place (H) helped me to decide this because 3102 has 1 at hundreds place while 2012 has 0 at hundreds place.

Page 59

Let Us Do

1. Compare the following pairs of numbers using < and >. Make a Th, H, T, O table, if necessary. Share your thoughts with the class.

a) 2190 __ 2910 b) 7087 __ 7088 c) 1009 __ 9001 d) 982 __ 1024 Solution: a) 2190 < 2910 b) 7087 < 7088

c) 1009 <u><</u> 9001

d) 982 <u><</u> 1024

2. Order the prices of the following objects from smallest to biggest (increasing order).



Solution: 1099 < 1899 < 1986.

3. The following women international cricketers have played 200 ODIs (One-Day International Matches). Listed below are their scores. Arrange the runs scored by them in increasing order (from lowest to highest).

| Debbie Hockley | 4064 |
|----------------|------|
| Suzie Bates | 5114 |
| Karen Rolton | 4814 |
| Mithali Raj | 7805 |
| Charlotte | 6002 |

Solution:

4064 < 4814 < 5114 < 6002 < 7805.

Page 60

4. Arrange the following mountain ranges indecreasing order of height (from highest to lowest).

| Mountain Range | Height (in meters) | | | | |
|-----------------|--------------------|--|--|--|--|
| Kangchenjunga | 8586 | | | | |
| Mullayanagiri | 1930 | | | | |
| Chaukhamba I | 7138 | | | | |
| Bailadila Range | 1276 | | | | |
| Manda Devi | 7816 | | | | |
| 1 kg | 8611 | | | | |
| Kalsubai | 1646 | | | | |

Solution:

8611 < 8586 < 7816 < 7138 < 1930 < 1646 < 1276. K2 < Kangchenjunga < Nanda Devi < Chaukhamba I < Mullayanagiri < Kalsubai < Bailadila Range.

5. Use the signs <,= ,> to compare the following. a) 2 Tens + 4 Thousands + 3 Hundreds ____2043 b) 2 Tens + 4 Thousands + 3 Hundreds ____4320 c) 2 Thousands + 9 Hundreds + 9 Tens + 9 Ones ____3000 d) 15 Ones + 9 Tens + 3 Hundreds ____1593 e) 5000 + 30 + 4 ____5034 f) 5000 + 300 + 4 ____5340 Solution: (a) 2 Tens + 4 Thousands + 3 Hundreds \geq 2043 (b) 2 Tens + 4 Thousands + 3 Hundreds = 4320 (e) 2 Thousands + 9 Hundreds + 9 Tens + 9 Ones \leq 3000

(d) 15 Ones + 9 Tens + 3 Hundreds < 1593

(e) 5000 + 30 + 4 <u>=</u> 5034 (f) 5000 + 30 + 4 <u><</u> 5340

6. Fill the blanks with digits 0 – 9 such that the numbers meet the condition.
a) 7___3 < 768__
b) 853__ < 8_3__
c) _2_1 < 5_2_
Solution:
a) 7<u>1 8</u> 3 < 7680_
b) 853<u>2</u> < 8<u>734</u>
c) 3281 < 5<u>620</u>

Page 61

CHALLENGE

Q. There are 99 numbers strictly between 700 and 800 excluding 700 and 800. How many numbers are there strictly between 7000 and 8000?
Circle the correct answer:
900 999 1000
Solution:
999.

Let Us Explore

1. Makeasmanyfour-digitnumbersaspossibleusingthedigits2,3, 4, 7 without repetition. There are 24 different numbers possible. Find as many as you can and arrange the numbers in decreasing order in your notebook.

Solution:

7432 7423 7342 7324 7243 7234 4732 4723 4372 4327 4273 4237 3742 3724 3472 3427 3274 3247 2743 2734 2473 2437 2374 2347.

2. Compare with your friends to find what other numbers they have made. See if all of you together can come up with all the 24 numbers. How do you know that you have all possible such numbers?

Solution:

Do it yourself.