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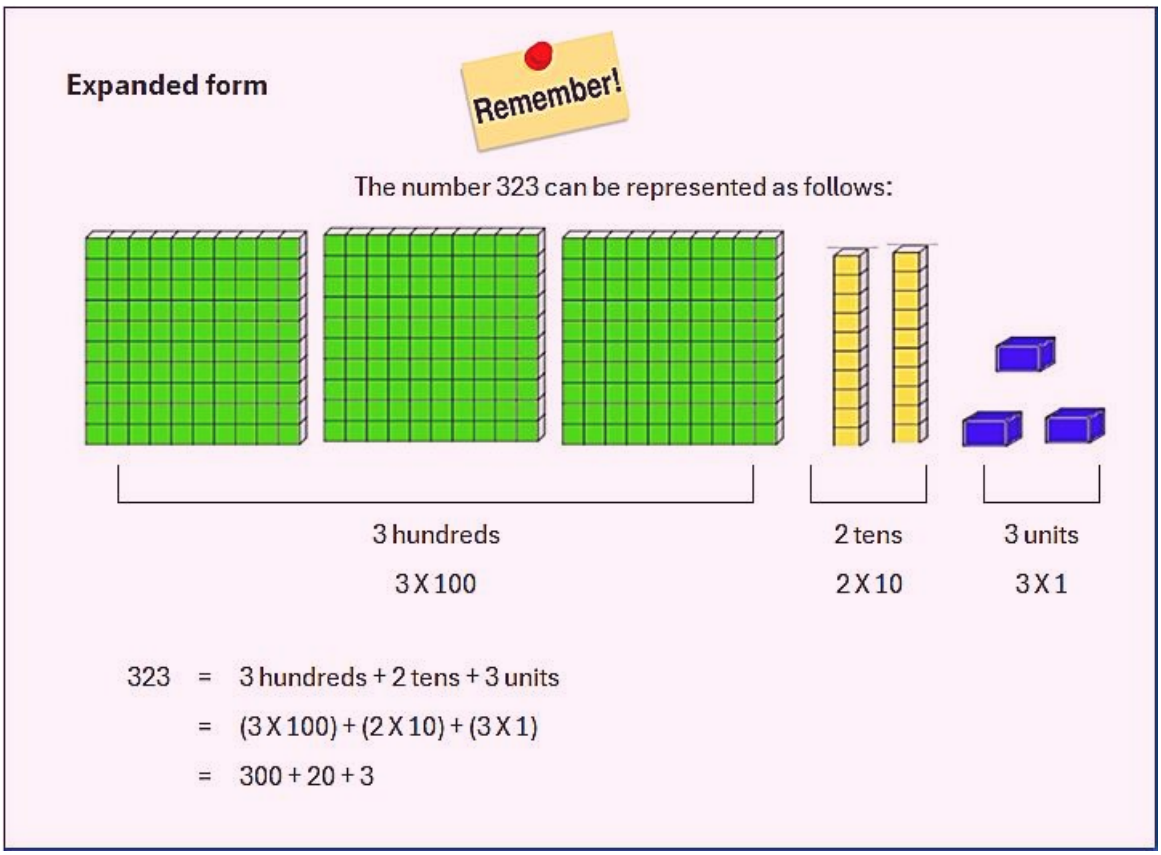
UNIT 1: NUMERATION & NOTATIONS



Exercise 1: Complete the following. The first one has been done for you.

(a) 456 = 4 hundreds + 5 tens + 6 units

(b) 789 = _____ hundreds + _____ tens + _____ units

(c) 915 = _____ hundreds + _____ tens + _____ units

(d) 693 = _____ hundreds + _____ tens + _____ units

(e) 257 = _____ hundreds + _____ tens + _____ units

Exercise 2: Complete the following. The first one has been done for you.

(a) 345 = (3 x 100) + (4 x 10) + (5 x 1)

(b) 789 = (____ x 100) + (____ x 10) + (____ x 1)

(c) 217 = (____ x 100) + (____ x 10) + (____ x 1)

(d) 653 = (____ x 100) + (____ x 10) + (____ x 1)

(e) 368 = (____ x 100) + (____ x 10) + (____ x 1)

Exercise 3: Complete the following. The first one has been done for you.

(a) 743 = 700 + 40 + 3

(b) 458 = _____ + _____ + _____

(c) 340 = _____ + _____ + _____

(d) 525 = _____ + _____ + _____

(e) 267 = _____ + _____ + _____

Abacus

Remember!

The number 643 can be represented on an abacus:

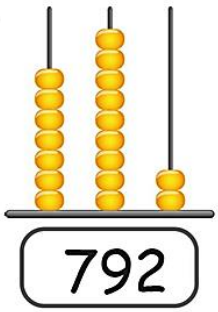
3 → 3 units = 3 X 1

4 → 4 tens = 4 X 10

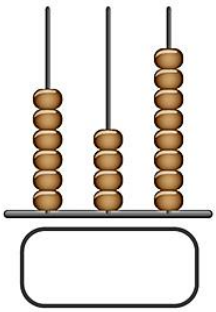
6 → 6 hundreds = 6 X 100

Exercise 4: Complete the following.

(a)



(b)



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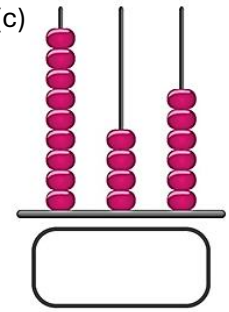
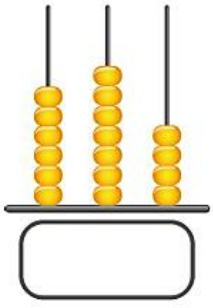
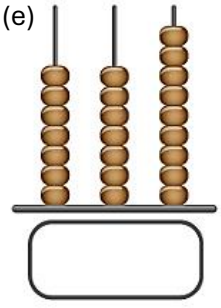


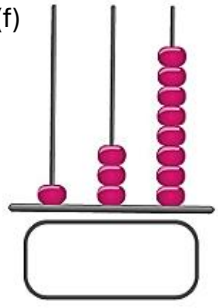
(d)



(e)

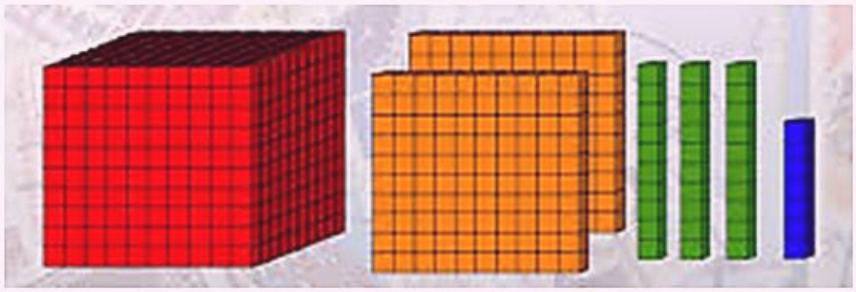


(f)



4-digit numbers

1 237 can be represented as follows:



1 thousand	2 hundreds	3 tens	7 units
(1 x 1 000)	(2 X 100)	(3 X 1)	(7 X 1)

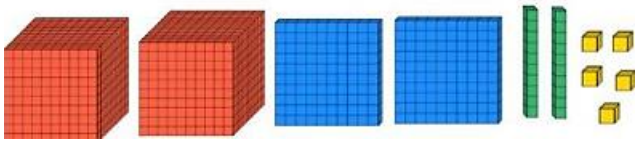
1 237 = 1 thousand + 2 hundreds + 3 tens + 7 units

= (1 X 1 000) + (2 X 100) + (3 X 10) + (7 X 1)

= 1 000 + 200 + 30 + 7

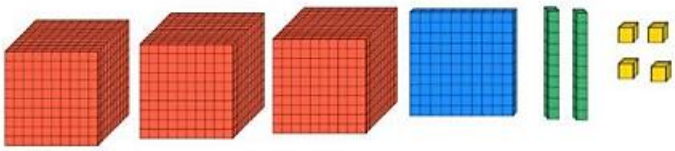
In words: One thousand two hundred and thirty seven

Exercise 5: Write down the correct number.

(a) 

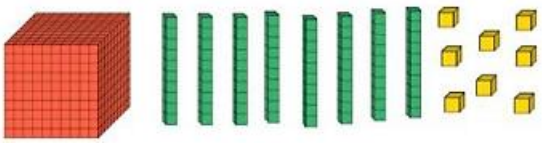
(i) In figures: _____

(ii) In words: _____

(b) 

(i) In figures: _____

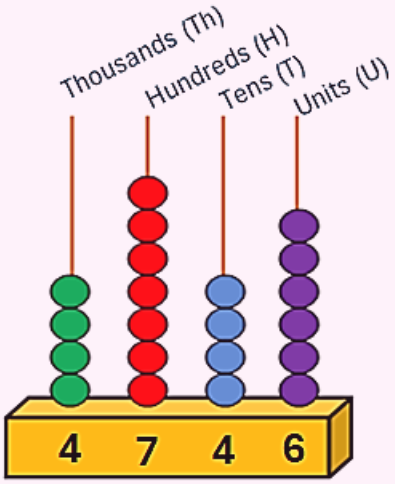
(ii) In words: _____

(c) 

(i) In figures: _____

(ii) In words: _____

Representing 4-digit numbers on abacus



			6	→ 6 units	=	6 X 1
		4	0	→ 4 tens	=	4 X 10
	7	0	0	→ 7 hundreds	=	7 X 100
4	0	0	0	→ 4 thousands	=	4 X 1 000

4 746 = 4 thousands + 7 hundreds + 4 tens + 6 units

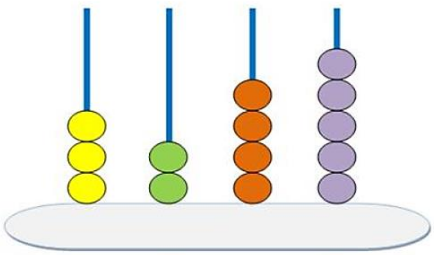
= (4 X 1 000) + (7 X 100) + (4 X 10) + (67 X 1)

= 4 000 + 700 + 40 + 6

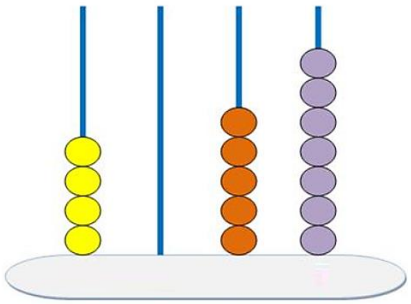
In words: Four thousand seven hundred and forty six

Exercise 6: Complete the following by writing the correct numerals.

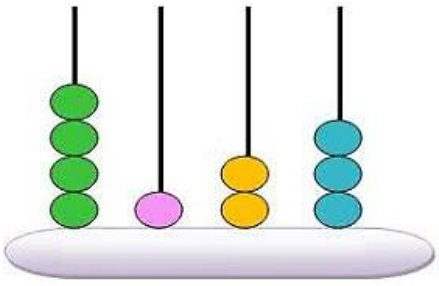
(a)



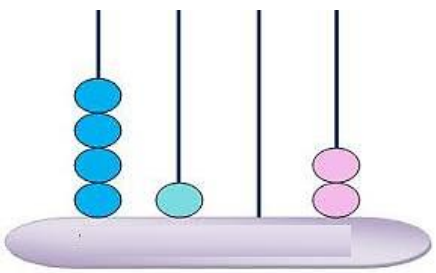
(b)



(c)

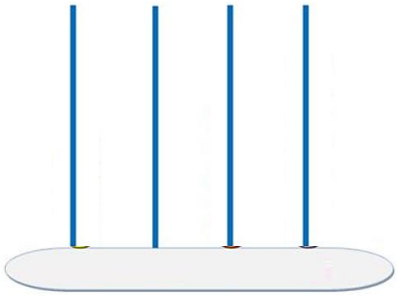


(d)



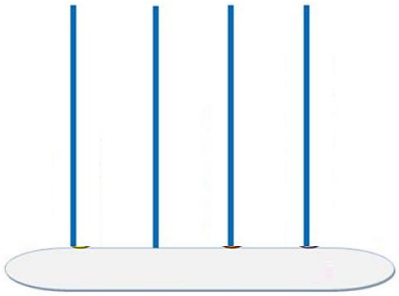
Exercise 7: Draw the appropriate number of beads on each abacus to represent the given number.

(a)



7 567

(b)



8 032

(c)

1 952

(d)

4 790

Number names

1 = One	25 = Twenty-five	150 = One hundred fifty	350 = Three hundred fifty
2 = Two	30 = Thirty	160 = One hundred Sixty	360 = Three hundred Sixty
3 = Three	35 = Thirty-five	170 = One hundred Seventy	370 = Three hundred Seventy
4 = Four	40 = Forty	180 = One hundred eighty	380 = Three hundred eighty
5 = Five	45 = Forty-five	190 = One hundred Ninety	390 = Three hundred Ninety
6 = Six	50 = Fifty	200 = Two hundred	400 = Four hundred
7 = Seven	55 = Fifty-five	210 = Two hundred ten	410 = Four hundred ten
8 = Eight	60 = Sixty	220 = Two hundred twenty	420 = Four hundred twenty
9 = Nine	65 = Sixty-five	230 = Two hundred thirty	430 = Four hundred thirty
10 = Ten	70 = Seventy	240 = Two hundred forty	440 = Four hundred forty
11 = Eleven	75 = Seventy-five	250 = Two hundred fifty	450 = Four hundred fifty
12 = Twelve	80 = Eighty	260 = Two hundred Sixty	500 = Five hundred
13 = Thirteen	85 = Eighty-five	270 = Two hundred Seventy	550 = Five hundred fifty
14 = Fourteen	90 = Ninety	280 = Two hundred eighty	600 = Six hundred
15 = Fifteen	95 = Ninety-five	290 = Two hundred Ninety	650 = Six hundred fifty
16 = Sixteen	100 = One Hundred	300 = Three hundred	700 = Seven hundred
17 = Seventeen	110 = One Hundred Ten	310 = Three hundred ten	750 = Seven hundred fifty
18 = Eighteen	120 = One Hundred Twenty	320 = Three hundred twenty	800 = Eight hundred
19 = Nineteen	130 = One hundred thirty	330 = Three hundred thirty	900 = Nine hundred
20 = Twenty	140 = One hundred forty	340 = Three hundred forty	1000 = One Thousand

Exercise 8: Complete the table below.

	Figures	Words
(a)	6 782	
(b)	3 256	
(c)		Two thousand five hundred and forty-nine
(d)	1 203	
(e)		Four thousand and ninety-two
(f)		Seven thousand eight hundred and ten
(g)	6 098	
(h)		Six thousand two hundred and sixteen
(i)	8 067	
(j)		Two thousand three hundred and eleven
(k)	4 569	
(l)		One thousand and nine hundred
(m)	9 999	

Exercise 9: What is the value of the digit which is underline ?

(a) 7 6<u>8</u>9 = 80

(b) 3 <u>2</u>45 = _____

(c) 4 56<u>7</u> = _____

(d) <u>2</u> 134 = _____

(e) 9 <u>8</u>41 = _____

(f) <u>7</u> 890 = _____

(g) 2 3<u>6</u>9 = _____

(h) 3 <u>5</u>91 = _____

(i) 8 <u>2</u>23 = _____

(j) <u>4</u> 856 = _____

Exercise 10: Complete the following.

(a) 6 783 = 6 thousands + 7 hundreds + 8 tens + 3 units

= (6 x 1 000) + (7 x 100) + (8 x 10) + (3 x 1)

= 6 000 + 700 + 80 + 3

In words : Six thousand seven hundred and eighty three

(b) 4 567 = _____

= _____

= _____

In words : _____

(c) 2 382 = _____

= _____

= _____

In words : _____

(d) 3 478 = _____

= _____

= _____

In words : _____

(e) 1 405 = _____

= _____

= _____

In words : _____

Exercise 11: Complete the following.

(a) _____ + 400 + 20 + 9 = 3 429

(b) 2 000 + _____ + 50 + 8 = 2 458

(c) 4 000 + 300 + _____ + 6 = 4 346

(d) 8 000 + _____ + 3 = 8 093

(e) 7 000 + 500 + 60 + _____ = 7 561

(f) 5 000 + _____ + _____ + 3 = 5 243

Exercise 12: Fill in the blanks.

(a) _____ + 3 hundreds + 4 tens + 7 units = 5 347

(b) 8 thousands + _____ + 6 tens + 5 units = 8 565

(c) 6 thousands + 3 tens + 2 units + 6 hundreds = _____

(d) 5 hundreds + 6 units + 2 tens = _____

(e) _____ + six units + _____ + seven tens = 8 576

Exercise 13: Match the following.

(a) 7 thousands + 4 hundreds + 2 tens + 1 unit

(b) 3 hundreds + 2 tens + 5 units + 1 thousand

(c) 6 tens + 7 thousands + 3 units + 1 hundred

(d) 8 thousands + 3 hundreds + 4 tens + 5 units

(e) 2 tens + 8 hundreds + 4 thousands + 5 units

4 825

8 345

1 325

7 421

7 163

Exercise 14: Complete the following.

(a) 4 thousands + 2 hundreds + 4 tens + 3 units = _____

(b) 4 hundreds + 6 tens + 3 units + 2 thousands = _____

(c) 3 units + 5 hundreds + 4 tens + 1 thousand = _____

(d) 8 units + 3 tens + 4 hundreds + 5 thousands = _____

(e) 3 thousands + 8 tens + 4 units + 5 hundreds = _____

(f) 6 hundreds + 2 units + 1 ten + 7 thousands = _____

Exercise 15: Write the correct number for each expansion.

(a) (3 x 1 000) + (4 x 100) + (2 x 10) + (9 x 1) = _____

(b) (2 x 100) + (1 x 1 000) + (5 x 10) + (6 x 1) = _____

(c) (4 x 1) + (6 x 10) + (4 x 100) + (7 x 1 000) = _____

(d) (5 x 1 000) + (2 x 1) + (6 x 100) + (7 x 10) = _____

(e) (2 x 10) + (4 x 1 000) + (1 x 1) + (8 x 100) = _____

(f) (5 x 1) + (9 x 100) + (6 x 1 000) = _____

Exercise 16: Complete the following.

(a) 7 653 = 7 thousands + 6 hundreds + 5 tens + 3 units

(b) 8 075 = _____

(c) 4 607 = _____

(d) 5 126 = _____

(e) 2 480 = _____

(f) 9 873 = _____

Exercise 17: Write in figures.

(a) Six thousand seven hundred and thirty-two = _____

(b) Four thousand two hundred and sixty = _____

(c) Three thousand one hundred and twelve = _____

(d) Eight thousand and one = _____

(e) One thousand five hundred and thirty-three = _____

(f) Seven thousand and seventeen = _____

Exercise 18: Write in words.

(a) 4 562 = _____

(b) 1 324 = _____

(c) 7 809 = _____

(d) 2 045 = _____

(e) 8 006 = _____

(f) 5 050 = _____

Exercise 19: Write down the missing numbers.

(a) 4 000 , 4 100 , 4 200 , _____ , _____ , _____ .

(b) 3 250 , 3 251 , 3 252 , _____ , 3 254 , _____ , _____ .

(c) 1 650 , 1 700 , _____ , 1 800 , _____ , 1 900 .

(d) 2 000 , 3 000 , _____ , _____ , _____ , 7 000.

(e) 7 340 , 7 342 , 7 344 , _____ , _____ , _____ .

(f) 1 550 , 1 555 , 1 560 , _____ , _____ ,_____.

Exercise 20: Using the digits below only once, complete the following.

3	5	9	1

(a) The smallest 4-digit number that can be formed is _____.

(b) The largest 4-digit number that can be formed is _____.

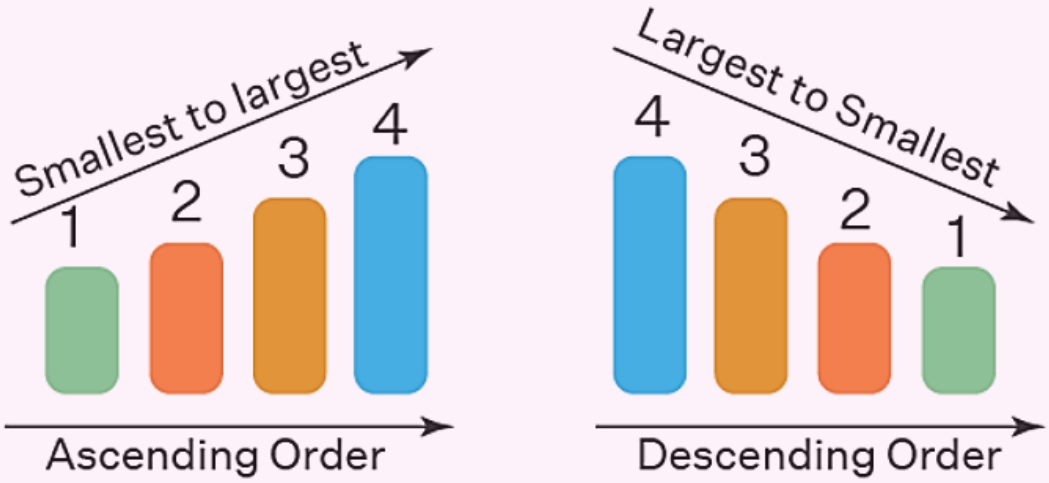
Exercise 21: Using the digits below only once, complete the following.

7	0	2	9

(a) The largest 4-digit number that can be formed is _____.

(b) The smallest 4-digit number that can be formed is _____.

Ascending and Descending order



Exercise 22: Arrange in ascending order.

(a) 6 000 , 4 000 , 1 000 , 2 000 , 9 000 .

_____

(b) 6 768 , 3 458 , 2 198 , 9 078 , 4 888 .

_____

(c) 1 234 , 4 321 , 2 134 , 1 342 , 4 312 .

_____

(d) 2 050 , 3 060 , 1 070 , 9 080 , 6 050 .

_____

(e) 6 795 , 8 645 , 1 235 , 3 895 , 585 .

_____

Exercise 23: Arrange in descending order.

(a) 6 000 , 3 000 , 7 000 , 2 000 , 1 000 .

_____

(b) 7 168 , 2 568 , 3 354 , 1 906 , 481 .

_____

(c) 2 434 , 4 521 , 4 242 , 1 423 , 3 412 .

_____

(d) 4 060 , 1 020 , 3 050 , 8 040 , 6 010 .

_____

(e) 5 785 , 5 645 , 5 435 , 5 895 , 5 975 .

_____