

CH = 1 (NUMBERS – OUR FRIENDS)

EXERCISE – 1A

Indian Place Value System								
CRORES		LAKHS		THOUSANDS		ONES		
TC	C	TL	L	T-TH	TH	H	T	O
		2	3	1	9	6	1	7

International Place Value Chart								
MILLIONS			THOUSANDS			ONES		
HM	TM	M	HTh	TTh	Th	H	T	O
		2	3	1	9	6	1	7

Q-1. Express the following no in the standard numeral form –

- a. 6,57,43,683
- b. 5,47,864
- c. 32,48,702
- g.. 47,00,063
- h.. 8,04,70,647

Q-2. Write the following no in expanded form –

- a. $67,43,859 = 6000000 + 700000 + 40000 + 3000 + 800 + 50 + 9$
- b. $4,32,087 = 400000 + 30000 + 2000 + 80 + 7$
- d.. $3,12,45,678 = 30000000 + 1000000 + 200000 + 40000 + 5000 + 600 + 40 + 8$
- h.. $7,32,80,054 = 70000000 + 3000000 + 200000 + 80000 + 50 + 4$

Q-3. State the place value of the coloured digit –

- a. 4 ,57,**8**32 = 800
- b. 85,93,0**6**1 = 60
- c. **4** , 32 , 75, 945 = 40000000

h.. $6,57,298 = 8$

Q-4. Express the following in numerals –

- a. 5,40,650
- b. 15,36,439
- c. 5,54,27,869
- f.. 78,06,506
- h.. 4,00,00,700

Q-5. Write the following in words –

- a. Six lakh eighty seven thousand three hundred fifty four
- c.. Forty lakh forty nine thousand nine hundred seventy four
- e.. Thirty lakh seventy thousand seven
- f. Five crore thirty three lakh seventy four thousand six

Q-6. Insert commas appropriately in the given no as per the Indian system-

- a. 5 , 42 , 867
- b. 97 , 53 , 110
- c. 36 , 91 , 215

Q-7. Find the difference between the place value and face value of the digit 9 in 459326.

Sol : Place value of 9 = 9000

Face value of 9 = - 9

Difference = $\underline{\underline{8991}}$

EXERCISE – 1B

Q-2. Arrange the following in ascending order –

- a. 7,80,643 8,28,867 80,25,957 1,56,34,123
b. 2,23,927 2,35,927 3,72,227 3,95,327
c. 25,45,068 28,68,054 39,54,068 76,43,090

Q-3. Write the greatest 7- digit no having four different digits –

Sol : Number = 99,99,876

Q-4. How many 6-digit no are there in all ?

Sol : Largest 6 digit no = 999999

Largest 5 digit no = 99999

Total no of 6 digit no are = $9,99,999 - 99,999 = 9,00,000$

EXERCISE – 1C

Millions			Thousands			Ones		
Hundred Million	Ten Million	Million	Hundred Thousands	Ten Thousands	Thousands	Hundred	Tens	Ones
HM	TM	M	HTh	TTh	Th	H	T	O
			1,00,000	One hundred thousand				
			10,00,000	One million				
			1,00,00,000	Ten million				
			10,00,00,000	One hundred-million				

Q-1. Express the following no in International system-

- a. 648,295,825 = Six hundred forty eight million two hundred ninety five thousand eight hundred twenty five
- b. 59 , 379 , 356 = Fifty nine million three hundred seventy nine thousand three hundred fifty six
- d.. 400,050,008 = Four hundred million fifty thousand eight
- e. 345,000 = Three hundred forty five thousand

Q-2. . Express the following no in Indian system-

- a. 2,34,47,146 = Two crore thirty four lakh forty seven thousand one hundred forty six
- b. 88,00,886 = Eighty eight lakh eight hundred eighty six
- e.. 54,39,760 = Fifty four lakh thirty nine thousand seven hundred sixty
- h. 2,03,33,040 = Two crore three lakh thirty three thousand forty

Q-3. How many lakhs make a million?

Sol : 1 million = 10 lakhs

Q-4. How many millions make a billion?

Sol : 1 billion = 1000 millions

EXERCISE – 1D

REMEMBER :

- $1\text{Km} = 1000\text{ m}$
- $1\text{ m} = 100\text{ cm}$
- $1\text{ cm} = 10\text{ mm}$
- $1\text{ Kg} = 1000\text{ g}$
- $1\text{ g} = 100\text{ cg}$
- $1\text{ cg} = 100\text{ mg}$
- $1\text{ KL} = 1000\text{ L}$
- $1\text{L} = 100\text{ CL}$
- $1\text{CL} = 100\text{ ML}$

Q-1. Introduce $>$, $<$ or $=$ between the given quantities -

a. $8\text{ m} \text{ ---- } 850\text{cm}$

$$1\text{m} = 100\text{ cm}$$

$$8\text{ m} = 800\text{ cm}$$

$$800\text{ cm} < 850\text{ cm}$$

$$\Rightarrow 8\text{m} < 850\text{cm}$$

b. $4\text{cm} \text{ ---- } 450\text{ mm}$

$$1\text{ cm} = 10\text{ mm}$$

$$4\text{ cm} = 4 \times 10 = 40\text{ mm}$$

$$40\text{mm} < 450\text{ mm}$$

$$\Rightarrow 4\text{cm} < 450\text{ mm}$$

c. $3\text{ km} \text{ ---- } 3000\text{ mm}$

$$1\text{ km} = 1000000\text{ mm}$$

$$3\text{ km} = 3000000\text{ mm}$$

$$3000000\text{ mm} > 3000\text{ mm}$$

$$\Rightarrow 3\text{km} > 3000\text{mm}$$

e.. $780\text{ g} \text{ ---- } 78\text{ kg}$

$$1\text{ kg} = 1000\text{ g}$$

$$78\text{ kg} = 78000\text{g}$$

$$780\text{ g} < 78000\text{g}$$

g. $4000\text{ g} \text{ ---- } 30\text{ kg}$

$$1\text{ kg} = 1000\text{g}$$

$$30\text{ kg} = 30000\text{ g}$$

$$4000\text{g} < 30000\text{g}$$

$$\Rightarrow 4000\text{g} < 30\text{kg}$$

h. $3.5\text{ kg} \text{ --- } 350\text{g}$

$$1\text{ kg} = 1000\text{ g}$$

$$3.5\text{ kg} = 3.5 \times 1000 = 3500\text{ g}$$

$$3500\text{ g} > 350\text{g}$$

$$\Rightarrow 3.5\text{ g} > 350\text{ g}$$

k. $5000\text{ML} \text{ ---- } 20\text{ L}$

$$1\text{L} = 1000\text{ ML}$$

$$20\text{ L} = 20000\text{ ML}$$

$$5000\text{ ML} < 20000\text{ ML}$$

$$\Rightarrow 5000\text{ ML} < 20\text{ L}$$

EXERCISE – 1E

Q-1.

	Add	Round off	Estimate	Correct
a.	47+68	50+70	120	115
b.	67+43	70+40	110	110
d.	44+66	40+70	110	11034+71
f.	34+71	30+70	100	105
h.	89+24	90+20	110	113
j.	78+84	80+80	160	162

Q-2.

	Subtract	Round off	Estimate	Correct
a.	88-35	90-40	50	53
b.	85-38	90-40	50	47
c.	43-22	40-20	20	21

g.	94-37	90-40	50	57
i.	84-37	80-40	40	47
j.	93-49	90-50	40	44

Q-3.

	Multiply	Round off	Estimate	Correct
a.	39x8	40x8	320	312
b.	53x8	50x8	400	424
c.	91x4	90x4	360	364
d.	82x4	80x4	320	328
e.	73x7	70x7	490	511
f.	69x6	70x6	420	414

Q-4. Add and give the approximate value in thousands –

a. $3654 + 4983$

3654 round off to 1000 = 4000

4983 round off to 1000 = + 5000

Sum $\underline{\hspace{1cm}}$ 9000

b. $4804 + 7324$

4805 round off to 1000 = 5000

7324 round off to 1000 = + 7000

Sum $\underline{\hspace{1cm}}$ 12000

c. $9346 + 8146$

9346 round off to 1000 = 9000

8146 round off to 1000 = + 8000

Sum $\underline{\hspace{1cm}}$ 17000

e.. $1863 - 1454$

1863 round off to 1000 = 2000

1454 round off to 1000 = - 1000

Difference $\underline{\hspace{1cm}}$ 1000

f. $8794 - 2368$

8794 round off to 1000 = 9000

$$2368 \text{ round off to } 1000 = - 2000$$

$$\text{Difference} = \underline{7000}$$

Q-5. Multiply and give the approximate answer –

a. 49×67

Approximate value = $50 \times 70 = 3500$

b. 93×87

Approximate value = $90 \times 90 = 8100$

e. 347×49

Approximate value = $300 \times 50 = 15000$

f. 812×68

Approximate value = $800 \times 70 = 56000$

h. 292×312

Approximate value = $300 \times 300 = 90000$

i. 491×421

Approximate value = $500 \times 400 = 200000$

EXERCISE – 1F

Hindu Arabic Numeral	1	5	10	50	100	500	1000
Roman Numerals	I	V	X	L	C	D	M

Q-1. Write in Roman numerals –

- a. 15 – XV
- b. 21 – XXI
- c. 25 – XXV

- g. 47 – XLVII
- j. 74 – LXXIV
- n. 97 – XCVII
- p. 123 – CXXIII
- q. 395 – CCCXCV
- s. 900 – CM
- t. 1100 - MC

Q-2. Write in Hindu – Arabic –

- a. XXIII – 23
- b. XXXI – 31
- c. XL – 60

- e.. LIV – 54
- h.. LXXXI – 81
- j. XC – 90

m. CCX – 210

n. CD – 400

EXERCISE – 1G

Q-1. Simplify :

a. $6 \times (10 + 8)$

$$= 6 \times 18$$

$$= 108$$

b. $15 + (44 - 21)$

$$= 15 + 23$$

$$= 38$$

c. $14 \times (20 - 8)$

$$= 14 \times 12$$

$$= 168$$

f. $100 \times (20 + 120)$

$$= 100 \times 140$$

$$= 14000$$

Q-2. On Monday ----- much ?

Sol : Total no of spectators on Monday were = $36,731 + 38,953 = 75,684$

Total no of spectators on Tuesday were = $39,246 + 36,842 = 76,088$

Their difference = $76088 - 75684 = 404$

So no of spectators were more on Tuesday .

Q3.A pharmaceutical company ----- rupees ?

Sol : Charges for 800 capsules = Rs 400

$$\text{Charges } \text{Rs } 1 = \frac{400}{800}$$

$$\text{Charges } \text{Rs } 24800 = \frac{400}{800} \times 24800 = \text{Rs } 12400$$

Q-4. During ----- that day .

Sol : In Rs 500 book sold = 1

$$\text{In Rs } 1 = \frac{1}{5}$$

$$\text{In Rs } 735000 = \frac{1}{5} \times 735000 = 1470 \text{ books}$$

Q-5. A truck ----- truck ?

Sol : In 1 box number of small packages = 80

$$\text{In 65 boxes } = 80 \times 65 = 5200$$

Now in 1 package no of toys = 15

$$\text{In 5200 } = 15 \times 5200 = 78000$$

Q-7. In Swaroop ----- ingredients ?

Sol : Total stock in sweets shop = 44.4 kg = 44.4 x 1000 = 44400g

In 8g cookie made = 1

$$\text{In 1 g cookie made } = \frac{1}{8}$$

$$\text{In 44400g cookies made } = \frac{1}{8} \times 44400 = 5550 \text{ cookies}$$

Q-8. A cross ----- kilometres .

Sol : Distance covered by 1 Participant = 750 m

$$\text{Distance covered by 62 Participants } = 750 \times 62 = 46500\text{m}$$

1 km = 1000m

$$1 \text{ m} = \frac{1}{1000} \text{ km}$$

$$46500\text{m} = \frac{46500}{1000} = 46.5 \text{ km}$$