

Ch - 1

Knowing our Numbers

★ Remember the points.

1 hundred = 10 tens

1 thousand = 10 hundreds
= 100 tens

1 Lakh = 100 thousands,
10 ten thousands,
1000 hundreds.

1 crore = 100 lakhs
10,000 thousands
10 ten lakhs
10 million

1 million = 10 hundred thousands
10 lakhs

Exc - 1.1

Q.1 Fill in the blanks:

- (a) 1 lakh = 10 ten thousand.
(b) 1 million = 10 hundred thousand.
(c) 1 crore = 10 ten lakh.
(d) 1 crore = 10 million.
(e) 1 million = 10 lakh.

Q.2. Place commas correctly and write the numerals:

- (a) Seventy - three lakh. Seventy - five thousand three hundred seven. = 73,75,307
(b) Nine crore five lakh forty - one = 9,05,00,041
(c) Seven crore fifty - two lakh twenty - one thousand three hundred two = 7,52,21,302

(d) Fifty eight million four hundred twenty three thousand two hundred two - 58,423,202

(e) Twenty - three lakh thirty thousand ten - 23,30,010

Q.3 Insert commas suitably and write the names according to Indian System of Numeration:

- (a) 87595762 = 8,75,95,762 → Eight crore seventy five lakh ninety five thousand seven hundred sixty two.
(b) 8546283 = 85,46,283 → Eighty five lakh forty six thousand two hundred eighty three.
(c) 99900046 = 9,99,000,46 → Nine crore ninety nine lakh forty six.

(d) $98432701 = 9,84,32,701 \rightarrow$
 Nine crore eighty four lakh
 thirty two thousand seven
 hundred one.

Q.4 Insert commas suitably and
 write the names according
 to International System of Numeration.

(a) $78921092 = 78,921,092 \rightarrow$ Seventy
 eight million nine hundred twenty
 one thousand ninety two.

(b) $7452283 = 7,452,283 \rightarrow$ Seven
 million four hundred fifty two thousand
 two hundred eighty three.

(c) $99985102 = 99,985,102 \rightarrow$ Ninety
 nine million nine hundred eighty
 five thousand one hundred
 two.

(d) $48049831 = 48,049,831 \rightarrow$ Forty
 eight million forty nine
 thousand eight hundred thirty
 one.

Exc - 1.2

Q1 A book four days.

Ans. Tickets sold on 1st day = 1094
 Tickets sold on 2nd day = 1812
 Tickets sold on 3rd day = 2050
 Tickets sold on 4th day = 2751
 Tickets sold on all four days = 7707

Q2 Shekhar need?

Ans. He wishes to complete runs = ^{09 9 10} 10,000
 He has scored runs = -6980
 He need runs = 3020

Q3 In an election, election?

Ans. Successful candidate registered votes = 5,77,500
 Other candidate registered votes = -3,48,700
 Margin of successful candidate = 2,28,800

Q4. Kiriti much?

Ans. She sold books and earn Rs. in 1st week = 2,85,891

She sold books and +
 earn Rs. in 2nd week = 4,00,768

The sale for the 2 week = 6,86,659

Q5. Find once?

Ans. Greatest 5-digit no. = 76,432
 Least 5-digit no. = -23,467
 Difference = 52,965

Q6 A machine 2006?

Ans. Machine manufactured screws in a day = 2825
 No. of days in Jan. = 31
2825
8475 x
 No. of screws made in Jan. = 87575

Q.7. A merchant ----- purchase?

Ans. Total amount merchant had = 78,592
He purchased radio sets = 40

Cost of 1 radio set = 1200
Cost of 40 radio sets = 1200×40
= 48,000 Ans.

Total amount merchant had = 78,592
Cost of 40 radio sets = - 48,000
Money remained with merchant = 30,592

Q.8. A student ----- answer?

Ans. The number by which student multiply = $7236 \times 65 = 470340$

The number by which student should have multiply = 7236×56
= 405216

* answer greater than correct answer -

$$\begin{array}{r} 470340^{10} \\ - 405216 \\ \hline 065124 \end{array}$$

Q.9. To stitch ----- remain?

Ans. Total length of cloth = 40m.
= 40m. = 4000cm.

Cloth need to stitch a shirt =
2m. 15cm.
2m. = 200cm., 15cm.
200cm. + 15cm.
= 215cm.

$$\begin{array}{r} 4000 = 800 \\ 215 = 43 \end{array}$$

$$800 \div 43$$

$$\begin{array}{r} 43 \overline{) 800} \quad (18 \\ - 43 \downarrow \\ \hline 370 \\ - 344 \\ \hline 026 \end{array}$$

Shirts can be stitched = 18
Remaining cloth = 26cm.

Q. 10 Medicine ----- 800kg

Ans. Load that van can carry = 800kg
 $800 \text{ kg} = 800000 \text{ g}$

Weight of one packet = 4kg 500g.
 $4 \text{ kg} = 4000 \text{ g}$
 $4000 \text{ g} + 500 \text{ g}$
 $= 4500 \text{ g}$

$$\frac{1600}{800000} = \frac{1600}{4500} = 177 \text{ Ans.}$$

No. of packets that can be loaded
in a van = 177 Packets

Q. 11 The distance ----- days

Ans. Distance of school from house = 1km 875m
 $1 \text{ km} = 1000 \text{ m}, 875 \text{ m}$
 $1000 \text{ m} + 875 \text{ m}$
 $= 1875 \text{ m}$

Distance covered by walking both
ways = $1875 \times 2 = 3750 \text{ m}$

The distance covered in one day = 3750
The distance covered in 6 days =

$$3750 \times 6 = 22,500 \text{ m}$$

Q. 12 A vessel ----- filled?

Ans. Quantity of curd in vessel = 4l 500ml
 $4 \text{ l} = 4000 \text{ ml}$
 $4000 + 500 \text{ ml}$
 $= 4500 \text{ ml}$

Capacity of glass = 25 ml.
No. of glasses that can be filled
with curd = $4500 \div 25 = 180$

$$\begin{array}{r} 25 \overline{) 4500} \quad (180 \\ - 25 \downarrow \\ \hline 200 \\ - 200 \downarrow \\ \hline 0000 \end{array}$$

180 glasses of 25 ml. can be filled from 4500 ml. of curd.

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Ex - 1.3

Q.1 Estimate each of the following using general rule:

(a) $730 + 998$

Ans. Rounding off 730 nearest to hundreds
 $= 700$

Rounding off 998 nearest to hundreds
 $= 1000$

$\therefore 730 + 998 = 700 + 1000 = 1700$ Ans

(b) $796 - 314$

Ans. Rounding off 796 nearest to hundreds
 $= 800$

Rounding off 314 nearest to hundreds
 $= 300$

$\therefore 796 - 314 = 800 - 300 = 500$ Ans

$$(c) \quad 12,904 + 2,888$$

Ans Rounding off 12904 nearest to thousands = 13000
Rounding off 2888 nearest to thousands = 3000

$$\therefore 12,904 + 2,888 = 13000 + 3000 = 16000 \text{ Ans}$$

$$(d) \quad 28,292 - 21,496$$

Ans Rounding off 28,292 nearest to thousands = 28,000
Rounding off 21,496 nearest to thousands = 22,000

$$\therefore 28,292 - 21,496 = 28,000 - 22,000 = 6000 \text{ Ans}$$

Q. Make ten more such examples of addition, subtraction and estimation of their outcome.

$$(i) \quad 1210 + 2365$$

Ans Rounding off 1210 nearest to thousands = 1200
Rounding off 2365 nearest to thousands = 2400

$$\therefore 1210 + 2365 = 1200 + 2400 = 3600 \text{ Ans}$$

$$(ii) \quad 3853 + 6524$$

Ans Rounding off 3853 nearest to thousands = 4000
Rounding off 6524 nearest to thousands = 7000

$$\therefore 3853 + 6524 = 4000 + 7000 = 11,000 \text{ Ans}$$

$$(iii) \quad 8752 - 3654$$

Ans Rounding off 8752 nearest to thousands = 9000
Rounding off 3654 nearest to thousands = 4000

$\therefore 8752 - 3654 = 9000 - 4000 = 5,000$ ans.

(iv) $4538 - 2965$

ans. Rounding off 4538 nearest to thousands = 5000
Rounding off 2965 nearest to thousands = 3000

$\therefore 4538 - 2965 = 5000 - 3000 = 2000$ ans.

(v) $1927 + 3185$

ans. Rounding off 1927 nearest to thousands = 2000
Rounding off 3185 nearest to thousands = 3000

$\therefore 1927 + 3185 = 2000 + 3000 = 5000$ ans.

(vi) $3258 - 1698$

ans. Rounding off ³²⁵⁸ nearest to thousands = 3000
Rounding off ¹⁶⁹⁸ nearest to thousands = 2000

$\therefore 3258 - 1698 = 3000 - 2000 = 1000$ ans.

(vii) $8735 + 6232$

ans. Rounding off 8735 nearest to thousands = 9000
Rounding off 6232 nearest to thousands = 6000

$\therefore 8735 + 6232 = 9000 + 6000 = 15000$ ans.

(viii) $1038 - 1028$

ans. Rounding off 1038 nearest to thousands = 1000

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$$\therefore 8752 - 3654 = 9000 - 4000 = 5000 \text{ ans}$$

(iv) $4538 - 2965$

ans. Rounding off 4538 nearest to thousands = 5000
Rounding off 2965 nearest to thousands = 3000

$$\therefore 4538 - 2965 = 5000 - 3000 = 2000 \text{ ans}$$

(v) $1927 + 3185$

ans. Rounding off 1927 nearest to thousands = 2000
Rounding off 3185 nearest to thousands = 3000

$$\therefore 1927 + 3185 = 2000 + 3000 = 5000 \text{ ans}$$

(vi) $3258 - 1698$

ans. Rounding off $\begin{matrix} 3258 \\ 1698 \end{matrix}$ nearest to thousands = 3000
Rounding off nearest to thousands = 2000

$$\therefore 3258 - 1698 = 3000 - 2000 = 1000 \text{ ans}$$

(vii) $8735 + 6232$

ans. Rounding off 8735 nearest to thousand = 9000
Rounding off 6232 nearest to thousand = 6000

$$\therefore 8735 + 6232 = 9000 + 6000 = 15000 \text{ ans}$$

(viii) $1038 - 1028$

ans. Rounding off 1038 nearest to thousand = 1000

Rounding off 1028 nearest to thousands = 1000

$$\therefore 1038 - 1028 = 1000 - 1000 = 0$$

(x) $6352 + 5830$

Ans Rounding off 6352 nearest to thousands = 6000

Rounding off 5830 nearest to thousands = 6000

$$\therefore 6352 + 5830 = 6000 + 6000 = 12000$$

Ans

(x) $9854 - 6385$

Ans Rounding off 9854 nearest to thousands = 10,000

Rounding off 6385 nearest to thousands = 6000

$$\therefore 9854 - 6385 = 10,000 - 6,000 = 4000$$

Ans

Q.2 Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens):

(a) $439 + 334 + 4,317$

Ans (i) Rough estimate (Rounding off to nearest hundreds)

$$439 + 334 + 4,317 = 400 + 300 + 4300 = 5,000$$

(ii) Closer estimate (Rounding off to nearest tens)

$$439 + 334 + 4,317 = 440 + 330 + 4320 = 5090$$

(b) $1,08,734 - 47,599$

Ans (i) Rough estimate (Rounding off to nearest hundreds)

$$1,08,734 - 47,599 = 1,08,700 - 47,600 = 61,100$$

(ii) Closer estimate (Rounding off to nearest tens)

$$1,08,734 - 47,599 = 1,08,730 - 47,600 = 61,130$$

(c) $8325 - 491$

ans. (i) Rough estimate (Rounding off to nearest hundreds)

$$8325 - 491 = 8300 - 500 = 7800$$

(ii) Closer estimate (Rounding off to nearest tens)

$$8325 - 491 = 8330 - 490 = 7840$$

(d) $4,89,348 - 48,365$

ans. (i) Rough estimate (Rounding off to nearest hundreds)

$$4,89,348 - 48,365 = 4,89,300 - 48,400 = 4,40,900$$

(ii) Closer estimate (Rounding off to nearest tens)

$$4,89,348 - 48,365 = 4,89,350 - 48,370 = 4,40,980$$

Q. Make four more such examples.

(i) $384 + 562$

ans. (i) Rough estimate (Rounding off to nearest hundreds)

$$384 + 562 = 400 + 600 = 1,000$$

(ii) Closer estimate (Rounding off to nearest tens)

$$384 + 562 = 380 + 560 = 940$$

(ii) $8765 - 3820$

ans. (i) Rough estimate (Rounding off to nearest hundreds)

$$8765 - 3820 = 8800 - 3900 = 4900$$

(ii) Closer estimate (Rounding off to nearest tens)

$$8765 - 3820 = 8770 - 3820 = 4950$$

(iii) $6653 - 8265$

ans: (i) Rough estimate (Rounding off to nearest hundreds)
 $6653 + 8265 = 6700 + 8300 = 15,000$

(ii) Closer estimate (Rounding off to nearest tens)
 $6653 + 8265 = 6650 + 8270 = 14920$

(iv) $3826 - 1262$

ans: (i) Rough estimate (Rounding off to nearest hundreds)
 $3826 - 1262 = 3800 - 1300 = 2500$

(ii) Closer estimate (Rounding off to nearest tens)
 $3826 - 1262 = 3830 - 1260 = 2570$

Q3 Estimate the following products using general rule.

(a) $578 \times 161 = 600 \times 200 = 1,20,000$

(b) $5281 \times 3491 = 5000 \times 3000 = 1,50,00,000$

(c) $1291 \times 592 = 1300 \times 600 = 7,80,000$

(d) $9250 \times 29 = 9000 \times 30 = 2,70,000$

Q. Make four more such examples.

(i) $382 \times 1062 = 400 \times 1000 = 4,00,000$

(ii) $6821 \times 1291 = 7000 \times 1000 = 70,00,000$

(iii) $3858 \times 9350 = 4000 \times 9000 = 3,60,00,000$

(iv) $3405 \times 7502 = 3000 \times 8000 = 2,40,00,000$