

Board –CBSE

Class –6<sup>th</sup>

Topic –Knowing Our Numbers Ex:1.3

## Exercise – 1.3

**Q1.** Estimate each of the following using general rule:

(a)  $730 + 998$

(b)  $796 - 314$

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

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

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

**Sol.** (a)  $730 + 998$

Rounding off 730 nearest to hundreds = 700

Rounding off 998 nearest to hundreds = 1,000

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

(b)  $796 - 314$

Rounding off 796 nearest to hundreds = 800

Rounding off 314 nearest to hundreds = 300

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

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

Rounding off 12,904 nearest to thousands = 13000

Rounding off 2888 nearest to thousands = 3000

$$\therefore 12,904 + 2,888 = 13000 + 3000 = 16000$$

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

Rounding off 28,292 nearest to thousands = 28,000

Rounding off 21,496 nearest to thousands = 21,000

$$\therefore 28,292 - 21,496 = 28,000 - 21,000 = 7,000$$

Example 1:  $1210 + 2365 = 1200 + 2400 = 3600$

Example 2:  $3853 + 6524 = 4000 + 7000 = 11,000$

Example 3:  $8752 - 3654 = 9,000 - 4,000 = 5,000$

Example 4:  $4538 - 2965 = 5,000 - 3,000 = 2,000$

Example 5:  $1927 + 3185 = 2000 + 3,000 = 5,000$

Example 6:  $3258 - 1698 = 3000 - 2000 = 1,000$

Example 7:  $8735 + 6232 = 9000 + 6000 = 15,000$

Example 8:  $1038 - 1028 = 1000 - 1000 = 0$

Example 9:  $6352 + 5830 = 6,000 + 6,000 = 12,000$

Example 10:  $9854 - 6385 = 10,000 - 6000 = 4,000$

**Q2.** Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens):

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

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

(c)  $8,325 - 491$

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

Make four such examples:

**Sol.** (a)  $439 + 334 + 4,317$

(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)

$$439 + 334 + 4317 = 440 + 330 + 4320 = 5090.$$

NCERT Solutions For Class 6 Maths Knowing Our Numbers Exercise 1.3

September 10, 2019 by phani

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

(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)  $8325 - 491$

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

(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)

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

Example 1:

$$384 + 562$$

Solution:

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

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

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

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

Example 2:

$$8765 - 3820$$

Solution:

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

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

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

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

Example 3:

$$6653 - 8265$$

Solution:

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

$$6653 + 8265 = 6700 + 8300 = 15,000$$

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

$$6653 + 8265 = 6650 + 8270 = 14920$$

Example 4:

$$3826 - 1262$$

Solution:

(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)  $578 \times 161$

(b)  $5281 \times 3491$

(c)  $1291 \times 592$

(d)  $9250 \times 29$

Make four more such examples.

- Sol.**
- (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)  $9250 \times 29 = 9000 \times 30 = 2,70,000$

Example 1.

$$382 \times 1062$$

Solution:

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

Example 2.

$$6821 \times 1291$$

Solution:

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

Example 3.

$$3858 \times 9350$$

Solution:

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

Example 4.

$$3405 \times 7502$$

Solution:

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