

Access NCERT Solutions for Class 6 Chapter 1:
Knowing Our Numbers Exercise 1.3

1. Estimate each of the following using general rule:

(a) $730 + 998$ (b) $796 - 314$ (c) $12904 + 2888$ (d) $28292 - 21496$

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

Solutions:

(a) $730 + 998$

Round off to hundreds

730 is rounds off to 700

998 is rounds off to 1000

Hence, $730 + 998 = 700 + 1000 = 1700$

(b) $796 - 314$

Round off to hundreds

796 is rounds off to 800

314 is rounds off to 300

Hence, $796 - 314 = 800 - 300 = 500$

(c) $12904 + 2888$

Round off to thousands

12904 is rounds off to 13000

2888 is rounds off to 3000

Hence, $12904 + 2888 = 13000 + 3000 = 16000$

(d) $28292 - 21496$

Round off to thousands

28292 is round off to 28000

21496 is round off to 21000

Hence, $28292 - 21496 = 28000 - 21000 = 7000$

Ten more such examples are

(i) $330 + 280 = 300 + 300 = 600$

(ii) $3937 + 5990 = 4000 + 6000 = 10000$

(iii) $6392 - 3772 = 6000 - 4000 = 2000$

(iv) $5440 - 2972 = 5000 - 3000 = 2000$

(v) $2175 + 1206 = 2000 + 1000 = 3000$

(vi) $1110 - 1292 = 1000 - 1000 = 0$

(vii) $910 + 575 = 900 + 600 = 1500$

(viii) $6400 - 4900 = 6000 - 5000 = 1000$

(ix) $3731 + 1300 = 4000 + 1000 = 5000$

(x) $6485 - 4319 = 6000 - 4000 = 2000$

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

(a) $439 + 334 + 4317$ (b) $108734 - 47599$ (c) $8325 - 491$ (d) $489348 - 48365$

Make four more such examples.

Solutions:

(a) $439 + 334 + 4317$

Rounding off to nearest hundreds

$$439 + 334 + 4317 = 400 + 300 + 4300 \\ = 5000$$

Rounding off to nearest tens

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

$$= 5090$$

$$(b) 108734 - 47599$$

Rounding off to nearest hundreds

$$108734 - 47599 = 108700 - 47600$$

$$= 61100$$

Rounding off to nearest tens

$$108734 - 47599 = 108730 - 47600$$

$$= 61130$$

$$(c) 8325 - 491$$

Rounding off to nearest hundreds

$$8325 - 491 = 8300 - 500$$

$$= 7800$$

Rounding off to nearest tens

$$8325 - 491 = 8330 - 490$$

$$= 7840$$

$$(d) 489348 - 48365$$

Rounding off to nearest hundreds

$$489348 - 48365 = 489300 - 48400$$

$$= 440900$$

Rounding off to nearest tens

$$489348 - 48365 = 489350 - 48370$$

$$= 440980$$

Four more examples are as follows

$$(i) 4853 + 662$$

Rounding off to nearest hundreds

$$4853 + 662 = 4800 + 700$$

$$= 5500$$

Rounding off to nearest tens

$$4853 + 662 = 4850 + 660$$

$$= 5510$$

$$(ii) 775 - 390$$

Rounding off to nearest hundreds

$$775 - 390 = 800 - 400$$

$$= 400$$

Rounding off to nearest tens

$$775 - 390 = 780 - 400$$

$$380$$

$$(iii) 6375 - 2875$$

Rounding off to nearest hundreds

$$6375 - 2875 = 6400 - 2900$$

$$= 3500$$

Rounding off to nearest tens

$$6375 - 2875 = 6380 - 2880$$

$$3500$$

$$(iv) 8246 - 6312$$

Rounding off to nearest hundreds

$$8246 - 6312 = 8200 - 6300$$

$$1900$$

Rounding off to nearest tens

$$8246 - 6312 = 8240 - 6310$$

$$= 1930$$

3. Estimate the following products using general rule:

(a) 578×161

(b) 5281×3491

(c) 1291×592

(d) 9250×29

Make four more such examples.

Solutions:

(a) 578×161

Rounding off by general rule

598 and 161 rounded off to 600 and 200 respectively

600

$\times 200$

120000

(b) 5281×3491

Rounding off by general rule

5281 and 3491 rounded off to 5000 and 3500 respectively

5000

$\times 3500$

17500000

(c) 1291×592

Rounding off by general rule

1291 and 592 rounded off to 1300 and 600 respectively

1300

× 600

780000

(d) 9250×29

Rounding off by general rule

9250 and 29 rounded off to 9000 and 30 respectively

9000

× 30

270000
