

CHAPTER – 1

Knowing Our Numbers

EXERCISE – 1. 3

Q. 1

Estimate each of the following using general rules:

- (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.

Answer:

a. $730 + 998$

By rounding off to hundreds,
730 rounds off to 700 and,
998 rounds off to 1000,
So we have;
 $= 700 + 1000$
 $= 1700$

b. $796 - 314$

By rounding off to hundreds,
796 rounds off to 800 and,
314 rounds off to 300

We get,
 $= 800 - 300$
 $= 500$

c. $12904 + 2822$

By rounding off to thousands,
12904 rounds off to 13000 and,
2822 rounds off to 3000.

We get,
 $= 13000 + 3000$
 $= 16000$

d. $28,296 - 21,496$

By rounding off to nearest thousands,
28,296 rounds off to 28000
21,496 rounds off to 21,000

We get,
 $= 28,000 - 21,000$
 $= 7,000$

Q. 2

Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate

(by rounding off to nearest tens):

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

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

(c) $8325 - 491$

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

Make four more such examples.

Answer:

a. $439 + 334 + 4,317$

Rounding off to nearest hundreds,

439 rounds off to 400

334 rounds off to 300

And 4317 rounds off to 4300,

We get,

$$= 400 + 300 + 4300$$

$$= 5000$$

By rounding off to nearest tens,

439 rounds off to 440

334 rounds off to 330

And 4317 rounds off to 4320,

We get,

$$= 440 + 330 + 4320$$

$$= 5090$$

b. $1,08,734 - 47,599$

Rounding off to nearest hundreds,

1, 08,734 rounds off to 1,08,700

47,599 rounds off to 47,600

We get,

$$= 1,08,700 - 47,600$$

$$= 61100$$

Rounding off to nearest tens,

$$1,08,734 \text{ rounds off to } 1,08,730$$

$$47,599 \text{ rounds off to } 47,600$$

We get,

$$= 1,08,730 - 47,600$$

$$= 61130$$

c. $8325 - 491$

Rounding off to nearest hundreds,

$$8325 \text{ rounds off to } 8300$$

$$491 \text{ rounds off to } 500$$

We get,

$$= 8300 - 500$$

$$= 7800$$

Rounding off to nearest tens,

$$8325 \text{ rounds off to } 8330$$

$$491 \text{ rounds off to } 490$$

We get,

$$= 8330 - 490$$

$$= 7840$$

d. $4,89,348 - 48,365$

Rounding off to nearest hundreds,

$$4,89,348 \text{ rounds off to } 4,89,300$$

48,365 rounds off to 48,400

We get,

$$= 489300 - 48400$$

$$= 440900$$

Rounding off to nearest tens,

4,89,348 rounds off to 4,89,350

48,365 rounds off to 48,370

We get,

$$= 489350 - 48370$$

$$= 440980$$

Q. 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.

Answer:

a. 578×161

Rounding off by general rule,

578 rounds off to 600

161 rounds off to 200,

So,

$$= 600 \times 200 = 120000$$

b. 5281×3491

Rounding off by the general rule,

5281 rounds off to 5000

3491 rounds off to 3500

So,

$$= 5000 \times 3500$$

$$= 17500000$$

c. 1291×592

Rounding off by general rule,

1291 rounds off to 1300

592 rounds off to 600

So,

$$= 1300 \times 600$$

$$= 780000$$

d. 9250×29

Rounding off by general rule,

9250 rounds off to 9000

29 rounds off to 30

So,

$$= 9000 \times 30$$

$$= 270000$$