Mathematics

(Chapter – 1) (Knowing Your Numbers)
(Class – VI)

Exercise 1.3

Question 1:
Estimate each of the following using general rule:
- (a) 730 + 998
- (b) 796 – 314
- (c) 12,904 + 2,888
- (d) 28,292 – 21,496

Answer 1:

(a) 730 round off to   700
   998 round off to <u>1000</u>
   Estimated sum = <u>1700</u>

(b) 796 round off to 800
   314 round off to <u>300</u>
   Estimated sum = <u>500</u>

(c) 12904 round off to 13000
   2888 round off to   <u>3000</u>
   Estimated sum =   <u>16000</u>

(d) 28292 round off to   28000
   21496 round off to   <u>21000</u>
   Estimated difference=   <u>7000</u>

Question 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) 1,08,737 – 47,599
- (c) 8325 – 491
- (d) 4,89,348 – 48,365

Answer 2:

(a) 439 round off to   400
   334 round off to   300
   4317 round off to   <u>4300</u>
   Estimated sum =   <u>5000</u>

(b) 108734 round off to   108700
   47599 round off to <u>47600</u>
   Estimated difference = <u>61100</u>

(c) 8325 round off to   8300
   491 round off to   <u>500</u>
   Estimated difference = <u>7800</u>

(d) 489348 round off to   489300
   48365 round off to   <u>48400</u>
   Estimated difference =   <u>440900</u>

Question 3:
Estimate the following products using general rule:
- (a) 578 x 161
- (b) 5281 x 3491
- (c) 1291 x 592
- (d) 9250 x 29

Answer 3:

(a) 578 x 161
   578 round off to 600
   161 round off to 200
   The estimated product = 600 x 200 = 1,20,000

(b) 5281 x 3491
     5281 round of to 5,000
     3491 round off to 3,500
     The estimated product = 5,000 x 3,500 = 1,75,00,000

(c) 1291 x 592
     1291 round off to 1300
     592 round off to 600
     The estimated product = 1300 x 600 = 7,80,000

(d) 9250 x 29
     9250 round off to 10,000
     229 round off to 30
     The estimated product = 10,000 x 30 = 3,00,000