



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) 578×161
- (b) 5281×3491
- (c) 1291×592
- (d) 9250×29

Answer 3:

- (a) 578×161
578 round off to 600
161 round off to 200
The estimated product = $600 \times 200 = 1,20,000$

- (b) 5281×3491
5281 round of to 5,000
3491 round off to 3,500
The estimated product = $5,000 \times 3,500 = 1,75,00,000$

- (c) 1291×592
1291 round off to 1300
592 round off to 600
The estimated product = $1300 \times 600 = 7,80,000$

- (d) 9250×29
9250 round off to 10,000
229 round off to 30
The estimated product = $10,000 \times 30 = 3,00,000$