

Q1 Find the actual sum and then compare with estimated sum.

a) $4863 + 2789$

| Solution: | Actual sum | Estimated sum |
|-----------|------------------|------------------|
| | 1 1 1 | |
| | 4 8 6 3 | 5 0 0 0 |
| | + <u>2 7 8 9</u> | + <u>3 0 0 0</u> |
| | 7 6 5 2 | 8 0 0 0 |

The actual sum is close to the estimated sum.

b) $7456 + 6532$

| Solution: | Actual sum | Estimated sum |
|-----------|------------------|------------------|
| | 7 4 5 6 | 7 0 0 0 |
| | + <u>6 5 3 2</u> | + <u>7 0 0 0</u> |
| | 1 3 9 8 8 | 14 0 0 0 |

The actual sum is close to the estimated sum.

c) $8562 + 7963$

| Solution: | Actual sum | Estimated sum |
|-----------|------------------|------------------|
| | 1 1 | |
| | 8 5 6 2 | 9 0 0 0 |
| | + <u>7 9 6 3</u> | + <u>8 0 0 0</u> |
| | 16 5 2 5 | 17 0 0 0 |

The actual sum is close to the estimated sum.

d) $2314 + 4123$

| Solution: | Actual sum | Estimated sum |
|-----------|------------------|------------------|
| | 2 3 1 4 | 2 0 0 0 |
| | + <u>4 1 2 3</u> | + <u>4 0 0 0</u> |
| | 6 4 3 7 | 6 0 0 0 |

The actual sum is close to the estimated sum.

e) $19632 + 26589$

| Solution: | Actual sum | Estimated sum |
|-----------|--------------------|--------------------|
| | 1 1 1 1 | |
| | 1 9 6 3 2 | 2 0 0 0 0 |
| | <u>+ 2 6 5 8 9</u> | <u>+ 2 7 0 0 0</u> |
| | 4 6 2 2 1 | 4 7 0 0 0 |

The actual sum is 46221 but estimated sum is 47000.

Q2 A petrol pump sold 3730 litres of petrol on day 1, 2531 litres of petrol on day 2 and 5368 litres of petrol on day 3. Estimate the total numbers of litres of the petrol pump sold in 3 days.

| Solution: | Actual sum | Estimated sum |
|-----------|------------------|------------------|
| | 1 1 | |
| | 3 7 3 0 | 4 0 0 0 |
| | 2 5 3 1 | 3 0 0 0 |
| | <u>+ 5 3 6 8</u> | <u>+ 5 0 0 0</u> |
| | 1 1 6 2 9 Ltr | 12 0 0 0 Ltr |

The estimated value of 11629 Ltr is 12000 Ltr.

.