

Estimation

EXERCISE 2(A)

Question 1.

Round off each of the following to the nearest ten:

- (i) 62
- (ii) 265
- (iii) 543
- (iv) 8261
- (v) 6294
- (vi) 3008
- (vii) 72326

Solution:

If the digit at ones place is less than 5, replace ones digit by 0, and keep the other digit as they are :

And if the digit at ones place is 5 or more than 5, increase tens digit by 1, and replace ones digit by 0.

- (i) 62 – 60
- (ii) 265 – 270
- (iii) 543 – 540
- (iv) 8261 – 8260
- (v) 6294 – 6290
- (vi) 3008-3010

Question 2.

Round off each of the following to the nearest hundred :

- (i) 748
- (ii) 784
- (iii) 2667
- (iv) 5432
- (v) 6388
- (vi) 59237

Solution:

If the tens digit is less than 5, replace each one of tens and once digits by 0 and keep the other digits as they are :

- (i) 748 – 700
- (ii) 784 – 800
- (iii) 2667 – 2700
- (iv) 5432 – 5400
- (v) 6388 – 6400
- (vi) 59237 – 59200

Question 3.

Round off each of the following to the nearest thousand:

- (i) 6475
- (ii) 6732
- (iii) 5352
- (iv) 32568
- (v) 9248
- (vi) 83294

Solution:

If the tens digit is 5 or more than 5, increase the hundreds digit by 1 and replace each of tens digit and ones digit by 0.

- (i) 6475 - 6000
- (ii) 6732 - 7000
- (iii) 25352 - 25000
- (iv) 32568 - 33000
- (v) 9248 - 9000
- (vi) 83294 - 83000

Question 4.

Round off

- (i) 578 to the nearest ten.
- (ii) 578 to the nearest hundred.
- (iii) 4327 to the nearest thousand.
- (iv) 32974 to the nearest ten-thousand.
- (v) 27487 to the nearest ten-thousand.

Solution:

- (i) 578 - 580
- (ii) 578 - 600
- (iii) 4327 - 4000
- (iv) 32974 - 30000
- (v) 27487 - 30000

Question 5.

Round off each of the following to the nearest tens, hundreds and thousands.

- (i) 864
- (ii) 1249
- (iii) 54, 547
- (iv) 68, 076
- (v) 56, 293
- (vi) 7, 293
- (vii) 89, 24, 379

Solution:

- (i) 864 - 860
- 864 - 900
- 864 - 1000

(ii) 1249 - 1250

1249 - 1200

1249 - 1000

(iii) 54, 547 - 54550

54, 547 - 54500

54, 547 - 55000

(iv) 68, 076 - 68, 080

68, 076 - 68, 100

68, 076 - 68, 000

(v) 56, 293 - 56, 290

56, 293 - 56, 300

56, 293 - 56, 000

(vi) 7, 293 - 7290

7, 293 - 7, 300

7, 293 - 7000

(vii) 89, 24, 379 - 89, 24, 380

89, 24, 379 - 89, 24, 400

89, 24, 379 - 89, 24, 000

Question 6.

Round off the following to the nearest tens ;

(i) ₹ 562

(ii) 837 m

(iii) 545 cm

(iv) ₹ 27

Solution:

(i) ₹ 562

₹ 562 - ₹ 560

(ii) 837 m

837 - 840 m

(iii) 545 cm

545 - 550

(iv) ₹ 27

₹ 27 - ₹ 30

Question 7.

List all the numbers which can be round off to 30.

Solution:

The numbers that can be rounded off to 30 are:

26, 27, 28, 29, 31, 32, 33, 34

Question 8.

List all the numbers which can be rounded off to 50.

Solution:

The numbers that can be rounded off to 50 are:

46, 47, 48, 49, 51, 52, 53, 54

Question 9.

Write the smallest and the largest numbers which are rounded off to 80.

Solution:

The smallest number which is rounded off to 80 is 75
and the largest number which is rounded off to 80 is 84.

Question 10.

Write the smallest and the largest numbers which are rounded off to 130.

Solution:

The smallest number which is rounded off to 130 is 125
and The largest number which is rounded off to 130 is 134.



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