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## EXERCISE 2(A)

## 1. Round off each of the following to the nearest ten:

- (i) 62
- (ii) 265
- (iii) 543
- (iv) 8261
- (v) 6294

#### **Solution:**

If the ones place digit is less than 5, replace ones digit by 0, and keep the other digit as the same

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 to the nearest ten is 60
- (ii) 265 to the nearest ten is 270
- (iii) 543 to the nearest ten is 540
- (iv) 8261 to the nearest ten is 8260
- (v) 6294 to the nearest ten is 6290

## 2. Round off each of the following to the nearest hundred:

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

#### **Solution:**

If the digit at tens place is less than 5, replace each one of tens and ones digits by 0 and keep the other digits as the same

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

- (i) 748 to the nearest hundred is 700
- (ii) 784 to the nearest hundred is 800
- (iii) 2667 to the nearest hundred is 2700
- (iv) 5432 to the nearest hundred is 5400
- (v) 6388 to the nearest hundred is 6400

## 3. Round off each of the following to the nearest thousand:

- (i) 6475
- (ii) 6732
- (iii) 25352



(iv) 32568

(v) 9248

#### **Solution:**

Observe the hundreds digit of the given number

If the hundreds digit is less than 5, replace each one of hundreds, tens, and ones digits by 0 and keep the other digits as same

If hundreds digit is 5 or more than 5 in the given number, increase thousand digit by 1 and replace each other digit on its right by 0

- (i) 6475 to the nearest thousand is 6000
- (ii) 6732 to the nearest thousand is 7000
- (iii) 25352 to the nearest thousand is 25000
- (iv) 32568 to the nearest thousand is 33000
- (v) 9248 to the nearest thousand is 9000

#### 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 to the nearest ten is 580
- (ii) 578 to the nearest hundred is 600
- (iii) 4327 to the nearest thousand is 4000
- (iv) 32974 to the nearest ten-thousand is 30000
- (v) 27487 to the nearest ten- thousand is 30000

## 5. Round off each of the following to the nearest ten, nearest hundred and nearest thousand.

- (i) 864
- (ii) 1249
- (iii) 54, 547
- (iv) 68, 076
- (v) 56, 293

- (i) 864 to the nearest ten is 860
- 864 to the nearest hundred is 900
- 864 to the nearest thousand is 1000
- (ii) 1249 to the nearest ten is 1250



1249 to the nearest hundred is 1200

1249 to the nearest thousand is 1000

(iii) 54547 to the nearest ten is 54550

54547 to the nearest hundred is 54500

54547 to the nearest thousand is 55000

(iv) 68076 to the nearest ten is 68080

68076 to the nearest hundred is 68100

68076 to the nearest thousand is 68000

(v) 56293 to the nearest ten is 56290

56293 to the nearest hundred is 56300

56293 to the nearest thousand is 56000

## 6. Round off the following to the nearest tens;

- (i) ₹ 562
- (ii) 837 m
- (iii) 545 cm
- (iv) ₹ 27

#### **Solution:**

- (i) ₹ 562 to the nearest ten is ₹ 560
- (ii) 837 m to the nearest ten is 840 m
- (iii) 545 cm to the nearest ten is 550 cm
- (iv) ₹ 27 to the nearest ten is ₹ 30

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

#### **Solution:**

26, 27, 28, 29,31, 32, 33, 34 are the numbers that can be rounded off to 30

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

#### **Solution:**

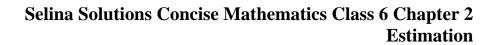
46, 47, 48, 49, 51, 52, 53, 54 are the numbers that can be rounded off to 50

## 9. Write the smallest and the largest numbers which are rounded off to 80. Solution:

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

## 10. Write the smallest and the largest numbers which are rounded off to 130. Solution:

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





which is rounded to off to 130





## **EXERCISE 2(B)**

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## 1. Estimate the sum of each pair of numbers to the nearest ten:

- (i) 67 and 44
- (ii) 34 and 87
- (iii) 23 and 66
- (iv) 78 and 18
- (v) 96 and 55

#### **Solution:**

- (i) 67 to the nearest ten is 70
- 44 to the nearest ten is 40
- Sum of these numbers = 70 + 40
- = 110
- $\therefore$ Required sum = 110
- (ii) 34 to the nearest ten is 30
- 87 to the nearest ten is 90
- Sum of these numbers = 30 + 90
- = 120
- $\therefore$ Required sum = 120
- (iii) 23 to the nearest ten is 20
- 66 to the nearest ten is 70
- Sum of these numbers = 20 + 70
- = 90
- ∴Required sum = 90
- (iv) 78 to the nearest ten is 80
- 18 to the nearest ten is 20
- Sum of these numbers = 80 + 20
- = 100
- ∴Required sum = 100
- (v) 96 to the nearest ten is 100
- 55 to the nearest ten is 60
- Sum of these numbers = 100 + 60
- = 160
- ∴Required sum = 160

## 2. Estimate the sum of each pair of numbers to the nearest hundred:

- (i) 336 and 782
- (ii) 546 and 342
- (iii) 270 and 495
- (iv) 4280 and 5295



#### (v) 4230 and 2410

#### **Solution:**

- (i) 336 to the nearest hundred is 300 and 782 to the nearest hundred is 800 Sum of these numbers = (300 + 800)
- = 1100
- ∴Required sum = 1100
- (ii) 546 to the nearest hundred is 500 and 342 to the nearest hundred is 300 Sum of these numbers = (500 + 300)
- = 800
- $\therefore$ Required sum = 800
- (iii) 270 to the nearest hundred is 300 and 495 to the nearest hundred is 500 Sum of these numbers = (300 + 500)
- = 800
- $\therefore$ Required sum = 800
- (iv) 4280 to the nearest hundred is 4300 and 5295 to the nearest hundred is 5300 Sum of these numbers = (4300 + 5300)
- = 9600
- $\therefore$ Required sum = 9600
- (v) 4230 to the nearest hundred is 4200 and 2410 to the nearest hundred is 2400 Sum of these numbers = (4200 + 2400)
- =6600
- $\therefore$ Required sum = 6600
- 3. Estimate the sum of the following pair of numbers to the nearest thousand:
- (i) 53826 and 36455
- (ii) 56802 and 22475

- (i) 53826 to the nearest thousand is 54000
- 36455 to the nearest thousand is 36000
- ∴ Required sum = 54000 + 36000
- = 90000
- (ii) 56802 to the nearest thousand is 57000
- 22475 to the nearest thousand is 22000
- $\therefore \text{Required sum} = 57000 + 22000$
- = 79000
- 4. Estimate the following differences correct to nearest ten:
- (i) 82 27
- (ii) 96 36



### (iii) 508 - 248

#### **Solution:**

- (i) 82 to the nearest ten is 80 and 27 to the nearest ten is 30
- $\therefore$ Required difference = (80 30)
- = 50
- (ii) 96 to the nearest ten is 100 and 36 to the nearest ten is 40
- $\therefore$ Required difference = (100 40)
- = 60
- (iii) 508 to the nearest ten is 510 and 248 to the nearest ten is 250
- $\therefore$ Required difference = (510 250)
- = 260

### 5. Estimate each difference to the nearest hundred:

- (i) 769 314
- (ii) 856 687
- (iii) 6352 2086

#### **Solution:**

- (i) 769 to the nearest hundred = 800 and
- 314 to the nearest hundred = 300
- $\therefore$ Required difference = (800 300)
- = 500
- (ii) 856 to the nearest hundred = 900 and
- 687 to the nearest hundred = 700
- $\therefore$ Required difference = (900 700)
- = 200
- (iii) 6352 to the nearest hundred = 6400 and
- 2086 to the nearest hundred = 2100
- $\therefore$ Required difference = (6400 2100)
- =4300

## **6.**Estimate each difference to the nearest thousand:

- (i) 45974 38766
- (ii) 76003 48399

- (i) 45974 to the nearest thousand = 46000
- 38766 to the nearest thousand = 39000
- $\therefore \text{Required difference} = (46000 39000)$ = 7000
- (ii) 76003 to the nearest thousand = 76000



48399 to the nearest thousand = 48000∴Required difference = (76000 - 48000)= 28000

## 7. Estimate each of the following products by rounding off each number to the nearest ten:

- (i) 49 x 52
- (ii) 63 x 38
- (iii) 27 x 54
- (iv) 53 x 85
- (v) 74 x 67

#### **Solution:**

- (i) 49 to the nearest ten = 50 and
- 52 to the nearest ten = 50
- ∴Required product =  $(50 \times 50)$
- = 2500
- (ii) 63 to the nearest ten = 60 and
- 38 to the nearest ten = 40
- $\therefore$ Required product =  $(60 \times 40)$
- = 2400
- (iii) 27 to the nearest ten = 30 and
- 54 to the nearest ten = 50
- $\therefore \text{Required product} = (30 \times 50)$
- = 1500
- (iv) 53 to the nearest ten = 50 and
- 85 to the nearest ten = 90
- ∴Required product =  $(50 \times 90)$
- =4500
- (v) 74 to the nearest ten = 70 and
- 67 to the nearest ten = 70
- $\therefore Required\ product = (70 \times 70)$
- = 4900

# 8. Estimate each of the following products by rounding off each number to the nearest hundred:

- (i) 477 x 213
- (ii) 624 x 236
- (iii) 333 x 247
- (iv) 537 x 283



#### (v) 382 x 127

#### **Solution:**

- (i) 477 x 213
- 477 to the nearest hundred = 500 and
- 213 to the nearest hundred = 200
- $\therefore$ Required product =  $(500 \times 200)$
- = 100000
- (ii) 624 x 236
- 624 to the nearest hundred = 600 and
- 236 to the nearest hundred = 200
- $\therefore$ Required product =  $(600 \times 200)$
- = 120000
- (iii) 333 x 247
- 333 to the nearest hundred = 300 and
- 247 to the nearest hundred = 200
- $\therefore$ Required product =  $(300 \times 200)$
- =60000
- (iv) 537 x 283
- 537 to the nearest hundred = 500 and
- 283 to the nearest hundred = 300
- $\therefore$ Required product =  $(500 \times 300)$
- = 150000
- (v) 382 x 127
- 382 to the nearest hundred = 400 and
- 127 to the nearest hundred = 100
- $\therefore Required product = (400 \times 100)$
- =40000
- 9. Estimate each of the following products by rounding off the first number correct to nearest ten and the other number correct to nearest hundred:
- (i) 28 x 287
- (ii) 432 x 128
- (iii) 48 x 165
- (iv) 72 x 258
- (v) 83 x 664

- (i) 28 x 287
- 28 to the nearest ten = 30 and
- 287 to the nearest ten = 300



- $\therefore$ Required product =  $(30 \times 300)$
- = 9000
- (ii) 432 x 128
- 432 to the nearest ten = 430 and
- 128 to the nearest ten = 100
- $\therefore$ Required product =  $(430 \times 100)$
- =43000
- (iii) 48 x 165
- 48 to the nearest ten = 50 and
- 165 to the nearest ten = 200
- ∴Required product =  $(50 \times 200)$
- = 10000
- (iv) 72 x 258
- 72 to the nearest ten = 70 and
- 258 to the nearest ten = 300
- ∴Required product =  $(70 \times 300)$
- = 21000
- (v) 83 x 664
- 83 to the nearest ten = 80 and
- 664 to the nearest ten = 700
- $\therefore Required product = (80 \times 700)$
- = 56000
- 10. Estimate each of the following quotients by converting each number to the nearest ten:
- (i) 87 ÷ 28
- (ii) 84 ÷ 23
- (iii) 77 ÷ 22
- (iv)  $198 \div 24$
- (v)  $355 \div 26$

- (i)  $87 \div 28$
- $87 \div 28$  is approximately (to the nearest 10) equal to
- $90 \div 30 = 3$
- (ii) 84 ÷ 23
- $84 \div 23$  is approximately (to the nearest 10) equal to
- $80 \div 20 = 4$
- (iii) 77 ÷ 22
- 77 ÷ 22 is approximately (to the nearest 10) equal to



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 $80 \div 20 = 4$ 

(iv)  $198 \div 24$ 

 $198 \div 24$  is approximately (to the nearest 10) equal to

 $200 \div 20 = 10$ 

(v)  $355 \div 26$ 

 $355 \div 26$  is approximately (to the nearest 10) equal to

 $360 \div 30 = 12$ 

