

EXERCISE 2(B)

Question 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
- (vi) 76 and 62
- (vii) 457 and 175
- (viii) 474 and 173
- (ix) 527 and 267

Solution:

- (i) 67 and 44

67 to the nearest ten = 70 and, 44 to the nearest ten = 40

$$\therefore \text{Required sum} = (70 + 40) = 110$$

- (ii) 34 and 87

34 to the nearest ten = 30 and, 87 to the nearest ten = 90

$$\therefore \text{Required sum} = (30 + 90) = 120$$

- (iii) 23 and 66

23 to the nearest ten = 20 and, 66 to the nearest ten = 70

$$\therefore \text{Required sum} = (20 + 70) = 90$$

- (iv) 78 and 18

78 to the nearest ten = 80 and, 18 to the nearest ten = 20

$$\therefore \text{Required sum} = (80 + 20) = 100$$

- (v) 96 and 55

96 to the nearest ten = 100 and, 55 to the nearest ten = 60

$$\therefore \text{Required sum} = (100 + 60) = 160$$

- (vi) 76 and 62

76 to the nearest ten = 80 and, 62 to the nearest ten = 60

$$\therefore \text{Required sum} = (80 + 60) = 140$$

- (vii) 457 and 175

457 to the nearest ten = 460 and, 175 to the nearest ten = 180

$$\therefore \text{Required sum} = (460 + 180) = 640$$

- (viii) 474 and 173

474 to the nearest ten = 470 and, 173 to the nearest ten = 170

$$\therefore \text{Required sum} = (470 + 170) = 640$$

- (ix) 527 and 267

527 to the nearest ten = 530 and, 267 to the nearest ten = 270

$$\therefore \text{Required sum} = (530 + 270) = 800$$

Question 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
- (vi) 30047 and 39287

Solution:

- (i) 336 and 782

336 to the nearest hundred = 300 and, 782 to the nearest hundred = 800

∴ Required sum = $(300 + 800) = 1100$

- (ii) 546 and 342 and, 342 to the nearest hundred = 300

∴ Required sum = $(500 + 300) = 800$

- (iii) 270 and 495

270 to the nearest hundred = 300 and, 495 to the nearest hundred = 500

∴ Required sum = $(300 + 500) = 800$

- (iv) 4280 and 5295

4280 to the nearest hundred = 4300 and, 5295 to the nearest hundred = 5300

∴ Required sum = $(4300 + 5300) = 9600$

- (v) 4230 and 2410

4230 to the nearest hundred = 4200 and, 2410 to the nearest hundred = 2400

∴ Required number = $(4200 + 2400) = 6600$

- (vi) 30047 and 39287

30047 to the nearest hundred = 30000 and, 39287 to the nearest hundred = 39300

∴ Required sum = $(30000 + 39300) = 69,300$

Question 3.

Estimate the sum of the following pair of numbers to the nearest thousand:

- (i) 53826 and 36455
- (ii) 56802 and 22475

Solution:

- (i) 53826 and 36455

53826 to the nearest hundred = 54000 and, 36455 to the nearest hundred = 36000

∴ Required sum = $(54000 + 36000) = 90000$

- (ii) 56802 and 22475

56802 to the nearest thousand = 57000 and, 22475 to the nearest thousand = 22000

∴ Required sum = $(57000 + 22000) = 79000$

Question 4.

Estimate the following differences correct to nearest ten :

- (i) $82 - 27$
- (ii) $96 - 36$
- (iii) $508 - 248$

Solution:

(i) $82 - 27$

82 to the nearest ten = 80 and, 27 to the nearest ten = 30

\therefore Required difference = $(80 - 30) = 50$

(ii) $96 - 36$

96 to the nearest ten = 100 and, 36 to the nearest ten = 40

\therefore Required difference = $(100 - 40) = 60$

(iii) $508 - 248$

508 to the nearest ten = 510 and, 248 to the nearest ten = 250

\therefore Required difference = $(510 - 250) = 260$

Question 5.

Estimate each difference to the nearest hundred :

(i) $769 - 314$

(ii) $856 - 687$

(iii) $6352 - 2086$

Solution:

(i) $769 - 314$

769 to the nearest hundred = 800 and, 314 to the nearest hundred = 300

\therefore Required difference = $(800 - 300) = 500$

(ii) $856 - 687$

856 to the nearest hundred = 900 and, 687 to the nearest hundred = 700

\therefore Required difference = $(900 - 700) = 200$

(iii) $6352 - 2086$

6352 to the nearest hundred = 6400 and, 2086 to the nearest hundred = 2100

\therefore Required difference = $(6400 - 2100) = 4300$

Question 6.

Estimate each difference to the nearest thousand:

(i) $45974 - 38766$

(ii) $76003 - 48399$

Solution:

(i) $45974 - 38766$

45974 to the nearest thousand = 46000 and, 38766 to the nearest thousand = 39000

\therefore Required difference = $(46000 - 39000) = 7000$

(ii) $76003 - 48399$

76003 to the nearest thousand = 76000 and, 48399 to the nearest thousand = 48000

\therefore Required difference = $(76000 - 48000) = 28000$

Question 7.

Estimate each of the following products by rounding of each number to the nearest ten :

(i) 49×52

(ii) 63×38

(iii) 27×54

(iv) 53×85

(v) 74×67

(vi) 25×33

Solution:

(i) 49×52

49 to the nearest ten = 50 and, 52 to the nearest ten = 50

\therefore Required product = $(50 \times 50) = 2500$

(ii) 63×38

63 to the nearest ten = 60 and, 38 to the nearest ten = 40

\therefore Required product = $(60 \times 40) = 2400$

(iii) 27×54

27 to the nearest ten = 30 and, 54 to the nearest ten = 50

\therefore Required product = $(30 \times 50) = 1500$

(iv) 53×85

53 to the nearest ten = 50 and, 85 to the nearest ten = 90

\therefore Required product = $(50 \times 90) = 4500$

(v) 74×67

74 to the nearest ten = 70 and, 67 to the nearest ten = 70

\therefore Required product = $(70 \times 70) = 4900$

(vi) 25×33

25 to the nearest ten = 30 and, 33 to the nearest ten = 30

\therefore Required product = $(30 \times 30) = 900$

Question 8.

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

(i) 477×213

(ii) 624×236

(iii) 333×247

(iv) 537×283

(v) 382×127

(vi) 427×328

Solution:

(i) 477×213

477 to the nearest hundred = 500 and, 213 to the nearest hundred = 200

\therefore Required product = $(500 \times 200) = 100000$

(ii) 624×236

624 to the nearest hundred = 600 and, 236 to the nearest hundred = 200

\therefore Required product = $(600 \times 200) = 120000$

(iii) 333×247

333 to the nearest hundred = 300 and, 247 to the nearest hundred = 200

\therefore Required product = $(300 \times 200) = 60000$

(iv) 537×283

537 to the nearest hundred = 500 and, 283 to the nearest hundred = 300

\therefore

Required product = $(500 \times 300) = 150000$

(v) 382×127

382 to the nearest hundred = 400 and, 127 to the nearest hundred = 100

\therefore Required product = $(400 \times 100) = 40000$

(vi) 427×328

427 to the nearest hundred = 500 and, 328 to the nearest hundred = 300

\therefore Required product = $(500 \times 300) = 150000$

Question 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) 28×287

(ii) 432×128

(iii) 48×165

(iv) 72×258

(v) 83×664

(vi) 44×250

Solution:

(i) 28×287

28 to the nearest ten = 30 and, 287 to the nearest hundred = 300

\therefore Required product = $(30 \times 300) = 9000$

(ii) 432×128

432 to the nearest ten = 430 and, 128 to the nearest hundred = 100

\therefore Required product = $(430 \times 100) = 43000$

(iii) 48×165

48 to the nearest ten = 50 and, 165 to the nearest hundred = 200

\therefore Required product = $(50 \times 200) = 10000$

(iv) 72×258

72 to the nearest ten = 70 and, 258 to the nearest hundred = 300

\therefore Required product = $(70 \times 300) = 21000$

(v) 83×664

83 to the nearest ten = 80 and, 664 to the nearest hundred = 700

\therefore Required product = $(80 \times 700) = 56000$

(vi) 44×250

44 to the nearest ten = 40 and, 250 to the nearest hundred = 300

\therefore Required product = $(40 \times 300) = 12000$

Question 10.

Estimate each of the following quotients by converting each number to the nearest ten :

(i) $87 \div 28$

(ii) $84 \div 23$

(iii) $77 \div 22$

(iv) $198 \div 24$

(v) $355 \div 26$

(vi) $444 \div 42$

(vii) $843 \div 33$

Solution:

(i) $87 \div 28$

$(87 \div 28)$ is (approximately to the nearest 10) equal to $90 \div 30 = 3$

(ii) $84 \div 23$

$84 \div 23$ is (approximately to the nearest 10) equal to $80 \div 20 = 4$

(iii) $77 \div 22$

$77 \div 22$ is (approximately to the nearest 10) equal to $80 \div 20 = 4$

(iv) $198 \div 24$

$198 \div 24$ is (approximately to the nearest 10) equal to $200 \div 20 = 10$

(v) $355 \div 26$

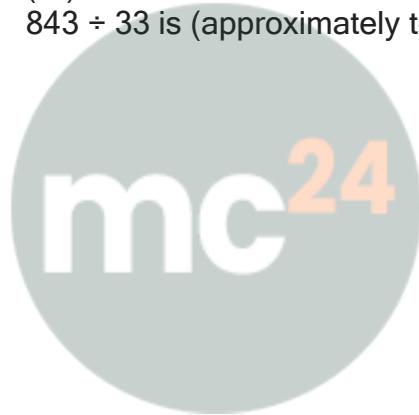
$355 \div 26$ is (approximately to the nearest 10) equal to $360 \div 30 = 12$

(vi) $444 \div 42$

$444 \div 42$ is (approximately to the nearest 10) equal to $440 \div 40 = 11$

(vii) $843 \div 33$

$843 \div 33$ is (approximately to the nearest 10) equal to $840 \div 30 = 28$



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