

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 \therefore 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 \therefore 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 \therefore 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

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(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 \therefore 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

Solution:

(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
∴Required sum = 57000 + 22000
= 79000

4. Estimate the following differences correct to nearest ten :

(i) 82 – 27 (ii) 96 – 36

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(iii) 508 - 248Solution: (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 Solution: (i) 45974 to the nearest thousand = 46000 38766 to the nearest thousand = 39000 ∴Required difference = (46000 – 39000) = 7000

(ii) 76003 to the nearest thousand = 76000

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48399 to the nearest thousand = 48000 \therefore 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 \therefore Required product = (50 × 50) = 2500(ii) 63 to the nearest ten = 60 and 38 to the nearest ten = 40 \therefore Required product = (60 × 40) = 2400(iii) 27 to the nearest ten = 30 and 54 to the nearest ten = 50 \therefore Required product = (30 × 50) = 1500(iv) 53 to the nearest ten = 50 and 85 to the nearest ten = 90 \therefore Required product = (50 × 90) =4500(v) 74 to the nearest ten = 70 and 67 to the nearest ten = 70 \therefore Required product = (70 × 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



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(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 × 200) = 100000(ii) 624 x 236 624 to the nearest hundred = 600 and 236 to the nearest hundred = 200 \therefore Required product = (600 × 200) = 120000(iii) 333 x 247 333 to the nearest hundred = 300 and 247 to the nearest hundred = 200 \therefore Required product = (300 × 200) = 60000(iv) 537 x 283 537 to the nearest hundred = 500 and 283 to the nearest hundred = 300 \therefore Required product = (500 × 300) = 150000(v) 382 x 127 382 to the nearest hundred = 400 and 127 to the nearest hundred = 100 \therefore Required product = (400 × 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
Solution:
(i) 28 x 287
28 to the nearest ten = 30 and 287 to the nearest ten = 300



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 \therefore Required product = (30 × 300) = 9000(ii) 432 x 128 432 to the nearest ten = 430 and 128 to the nearest ten = 100 \therefore Required product = (430 × 100) = 43000 (iii) 48 x 165 48 to the nearest ten = 50 and 165 to the nearest ten = 200 \therefore Required product = (50 × 200) = 10000(iv) 72 x 258 72 to the nearest ten = 70 and 258 to the nearest ten = 300 \therefore Required product = (70 × 300) = 21000(v) 83 x 664 83 to the nearest ten = 80 and 664 to the nearest ten = 700 \therefore Required product = (80 × 700) = 56000

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) $355 \div 26$ 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

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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 $360 \div 30 = 12$

