

EXERCISE 4B

1. Add: (i) 0.5 and 0.37 (ii) 3.8 and 8.7 (iii) 0.02, 0.008 and 0.309 (iv) 0. 4136, 0. 3195 and 0.52 (v) 9.25, 3.4 and 6.666 (vi) 3.007, 0.587 and 18.341 (vii) 0.2, 0.02 and 2.0002 (viii) 6. 08, 60.8, 0.608 and 0.0608 (ix) 29.03, 0.0003, 0.3 and 7.2 (x) 3.4, 2.025, 9.36 and 3.6221 Solution:

(i) 0.5 and 0.37

| | 0.5 | |
|---|------|--|
| + | 0.37 | |
| | 0.87 | |

So we get

0.5 + 0.37 = 0.87

(ii) 3.8 and 8.7

3.8 <u>+ 8.7</u> 12.5

So we get 3.8 + 8.7 = 12.5

(iii) 0.02, 0.008 and 0.309

| | 0.02 |
|---|-------|
| | 0.008 |
| + | 0.309 |
| | 0.337 |

So we get 0.02 + 0.008 + 0.309 = 0.337

(iv) 0.4136, 0.3195 and 0.52

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|) |
|---|
| |

0.3195

+ 0.52

1.2531

So we get 0.4136 + 0.3195 + 0.52 = 1.2531

(v) 9.25, 3.4 and 6.666

3.4

+ 6.666

19.316

So we get 9.25 + 3.4 + 6.666 = 19.316

(vi) 3.007, 0.587 and 18.341

3.007 0.587

+18.341

21.935

So we get 3.007 + 0.587 + 18.341 = 21.935

(vii) 0.2, 0.02 and 2.0002

0.2

0.02

12.0002

2.2202

So we get 0.2 + 0.02 + 2.0002 = 2.2202

(viii) 6.08, 60.8, 0.608 and 0.0608

6.08 60.8 0.608 + 0.0608 67.5488

So we get



6.08 + 60.8 + 0.608 + 0.0608 = 67.5488

(ix) 29.03, 0.0003, 0.3 and 7.2

29.03

0.0003

0.3

+ 7.2

36.5303

So we get 29.03 + 0.0003 + 0.3 + 7.2 = 36.5303

(x) 3.4, 2.025, 9.36 and 3.6221

| 3.4 | |
|------------------|--|
| 2.025 | |
| 9.36 | |
| \$ 3.6221 | |
| 18.4071 | |

So we get 3.4 + 2.025 + 9.36 + 3.6221 = 18.4071

| 2. Subtract the first | number from the second |
|--------------------------------|------------------------|
| (i) 5.4 , 9.8 | |
| (ii) 0.16 , 4 .3 | |
| (iii) 0.82 , 8.6 | |
| (v) 2.237, 9.425 | |
| (vi) 41 .03, 59.46 | |
| (vii) 3.92. 26.86 | |
| (viii) 4.73, 8.5 | |
| (ix) 12.63, 36.2 | |
| (x) 0.845 , 3.71 | |
| Solution: | |
| | |

(i) 5.4, 9.8 It can be written as 9.8 - 5.4 = 4.49.8 -5.4 4.4 4.4

(ii) 0.16, 4.3 It can be written as 4.3 - 0.16 = 4.14



| 4.3 | |
|--|--|
| -0.16 | |
| 4.14 | |
| (iii) 0.82, 8.6 It can be written as 8.6 - 0.82 = 7.78 | |
| 8.6 | |
| -0.82 | |
| 7.78 | |
| (v) 2.237, 9.425 | |
| It can be written as | |
| 9.425 - 2.237 = 7.188 | |
| | |
| 7.199 | |
| /.188 | |
| (vi) 41.03.59.46 | |
| It can be written as | |
| 59.46 - 41.03 = 18.43 59.46 | |
| -41.03 | |
| 18.43 | |
| | |
| (V11) 3.92, 20.80 It can be written as | |
| 26.86 - 3.92 - 22.94 | |
| 26.86 | |
| - 3.92 | |
| 22.94 | |
| | |
| (viii) 4.73, 8.5 | |
| It can be written as | |
| 8.5 - 4.73 = 3.77 | |
| - 4.73 | |
| 3.77 | |
| | |
| (ix) 12.63, 36.2 | |
| It can be written as | |
| 36.2 - 12.63 = 23.57 | |
| -17.62 | |
| - 12.03 | |
| 23.57 | |



(x) 0.845, 3.71 It can be written as 3.71 - 0.845 = 2.8653.71 - 0.845 2.865 3. Simplify: (i) 28.796 -13.42 - 2.555 (ii) 93.354 - 62.82 - 13.045 (iii) 36 - 18.59 - 3.2 (iv) 86 + 16.95 - 3.0042 (v) 32.8 - 13 - 10.725 + 3.517(vi) 4000 - 30.51 - 753.101 - 69.43(vii) 0.1835 + 163.2005 - 25.9 - 100 (viii) 38.00 - 30 + 200.200 - 0.230 (ix) 555.555 + 55.555 - 5.55 - 0.555 Solution: (i) 28.796 -13.42 - 2.555 It can be written as = 28.796 - (13.42 + 2.555)On further calculation = 28.796 - 15.975= 12.82128.796 13.42 -15.975 +2.555 12.821 15.975 (ii) 93.354 - 62.82 - 13.045 It can be written as = 93.354 - (62.82 + 13.045)On further calculation = 93.354 - 75.865= 17.48993.354 62.82 -75.865 **↓**13.045 17.489 75.865 (iii) 36 – 18.59 – 3.2 It can be written as = 36 - (18.59 + 3.2)On further calculation = 36 - 21.79

= 14.21



| 36 | 18.59 |
|--------|-------|
| -21.79 | + 3.2 |
| 14.21 | 21.79 |
| | |

(iv) 86 + 16.95 - 3.0042 It can be written as = 102.95 - 3.0042 On further calculation = 99.9458

| 102.95 | 86 |
|----------|----------------|
| -3.0042 | 4 16.95 |
| 99.9458 | 102.95 |
| 33.34.30 | 102.55 |

(v) 32.8 - 13 - 10.725 + 3.517It can be written as = (32.8 + 3.517) - (13 + 10.725)On further calculation = 36.317 - 23.725= 12.592

| 13 | 32.8 | 36.317 |
|-----------------|---------|---------|
| ∔ 10.725 | + 3.517 | -23.725 |
| 23.725 | 36.317 | 12.592 |

(vi) 4000 - 30.51 - 753.101 - 69.43It can be written as = 4000 - (30.51 + 753.101 + 69.43)On further calculation = 4000 - 853.041= 3146.959

$30.51 \\ +753.101 \\ +69.43 \\ \hline 853.041 \\ \hline 3146.959 \\ \hline$

(vii) 0.1835 + 163.2005 - 25.9 - 100It can be written as = (0.1835 + 163.2005) - (25.9 + 100)On further calculation = 163.2840 - 125.9= 37.484

| 25.9 | 0.1835 | 163.384 |
|-------|-----------|---------|
| + 100 | +163.2005 | - 125.9 |
| 125.9 | 163.384 | 37.484 |



(viii) 38.00 - 30 + 200.200 - 0.230 It can be written as =(38.00 + 200.200) - (30 + 0.230)On further calculation = 238.200 - 30.230= 207.970= 207.97 238.2 - 30.23 207.97 (ix) 555.555 + 55.555 - 5.55 - 0.555 It can be written as = (555.555 + 55.555) - (5.55 + 0.555)On further calculation = 611.110 - 6.105= 605.005

| 555.555 | 611.11 |
|---------|---------|
| +55.555 | - 6.105 |
| 611.11 | 605.005 |

4. Find the difference between 6.85 and 0.685. Solution:

The difference between 6.85 and 0.685 = 6.85 - 0.685

6.85 --0.685 6.165

5. Take out the sum of 19.38 and 56.025, then subtract it from 200.111. Solution:

= 6.165

We know that the sum of 19.38 and 56.025 can be written as 19.38 + 56.025 = 75.405 19.38 <u>+56.025</u> <u>75.405</u>

We can write it as Difference between 200.111 and 75.405 200.111 – 75.405 = 124.706 200.111 –75.405 124.706





6. Add 13.95 and 1.003, and from the result, subtract the sum of 2.794 and 6.2. Solution:

We know that addition of 13.95 and 1.003 can be written as 13.95 + 1.003 = 14.953

13.95 + 1.003 14.953

Similarly the sum of 2.794 and 6.2 can be written as 2.794 + 6.2 = 8.994

2.794 + 6.2 8.994

Here the difference between 14.953 and 8.99414.953 - 8.994 = 5.959

7. What should be added to 39.587 to give 80.375? Solution:

It is given that Sum of two numbers = 80.375One number = 39.587So the other number = 80.375 - 39.587 = 40.788 **80.375 -39.587 40.788**

8. What should be subtracted from 100 to give 19.29? Solution:

It is given that Sum of two numbers = 100 One number = 19.29 So the other number = 100 - 19.29 = 80.71100 - 19.29 80.71

9. What is the excess of 584.29 over 213.95? Solution:

It is given that



Sum of two numbers = 584.29One number = 213.95So the other number = 584.29 - 213.95 = 370.34**584.29** -213.95 370.34

10. Evaluate:

| (i) $(5.4 - 0.8) + (2.97 - 1.462)$ | |
|--------------------------------------|----|
| (ii) $(6.25 + 0.36) - (17.2 - 8.97)$ | /) |
| (iii) 9.004 + (3 -2.462) | |
| (iv) 879.4 - (87.94 - 8.794) | |
| Solution: | |

| (i) $(5.4 - 0.8) + (2.9)$ | 7 -1.462) | |
|---------------------------|-----------|--|
| It can be written as | | |
| = 4.6 + 1.508 | | |
| On further calculation | n | |
| = 6.108 | | |
| 5.4 | 2.97 | |
| - 0.8 | - 1.462 | |
| 4.6 | 1.508 | |
| | | |

(ii) (6.25 + 0.36) - (17.2 - 8.97)It can be written as = 6.61 - 8.23On further calculation = -1.62 **5.25 17.2 4** 0.36 **5.61 7** 8.97 **8.23**

(iii) 9.004 + (3 - 2.462)It can be written as = 9.004 + 0.538On further calculation = 9.5423 9.004 - 2.462 0.538 9.542

(iv) 879.4 - (87.94 - 8.794) It can be written as = 879.4 - 79.146 On further calculation = 800.254 4.6 + 1.508 6.108

6.61

-8.23

-1.62



| 87.94 | 879.4 |
|---------|---------|
| - 8.794 | -79.146 |
| 79.146 | 800.254 |

11. What is the excess of 75 over 48.29? Solution:

We know that the excess of 75 over 48.29 can be written as 75 - 48.29 26.71

Hence, the excess of 75 over 48.29 is 26.71.

12. If A = 237.98 and B = 83.47. Find: (i) A – B (ii) B – A. Solution:

It is given that A = 237.98 and B = 83.4Substituting the values B - A = 83.47 - 237.98B - A = -154.51**83.47** -237.98 -154.51

13. The cost of one kg of sugar increases from ₹28.47 to ₹32.65. Find the increase in cost. Solution:

Cost of sugar = ₹28.47 Cost of sugar is raised = ₹32.65 Increase in the cost of sugar = ₹32.65 - ₹28.47 = ₹4.18 32.65 -28.47 4.18