

EXERCISE 11E

Simplify: 1. x/2 + x/4 Solution:

x/2 + x/4Taking LCM = (2x + x)/4= 3x/4

2. a/10 + 2a/5 Solution:

a/10 + 2a/5Taking LCM = (a + 4a)/10= 5a/10= a/2

3. y/4 + 3y/5 Solution:

y/4 + 3y/5 Taking LCM = (5y + 12y)/ 20 = 17y/20

4. x/2 – x/8 Solution:

x/2 - x/8Taking LCM = (4x - x)/8= 3x/8

5. 3y/4 – y/5 Solution:

3y/4 - y/5Taking LCM = (15y - 4y)/20= 11y/20

6. 2p/3 – 3p/5 Solution:

2p/3 - 3p/5Taking LCM = (10p - 9p)/15 Selina Solutions Concise Maths Class 7 Chapter 11 – Fundamental Concepts (Including Fundamental Operations)

PAGE: 133





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= p/15

7. k/2 + k/3 + 2k/5 Solution:

k/2 + k/3 + 2k/5Here the LCM of 2, 3 and 5 is 30 = (15k + 10k + 12k)/ 30 = 37k/30

8. 2x/5 + 3x/4 – 3x/5 Solution:

2x/5 + 3x/4 - 3x/5Here the LCM of 5 and 4 is 20 = (8x + 15x - 12x)/20= 11x/20

9. 4a/7 – 2a/3 + a/7 Solution:

4a/7 - 2a/3 + a/7Here the LCM of 3 and 7 is 21 = (12a - 14a + 3a)/21= a/21

10. 2b/5 – 7b/15 + 13b/3 Solution:

2b/5 - 7b/15 + 13b/3Here the LCM of 3, 5 and 15 is 15 = (6b - 7b + 65b)/15= 64b/15

11. 6k/7 - (8k/9 - k/3)Solution:

6k/7 - (8k/9 - k/3)Here the LCM of 7, 9 and 3 is 63 = [54k - (56k - 21k)]/63By further calculation = (54k - 35k)/63= 19k/63

12. 3a/8 + 4a/5 - (a/2 + 2a/5)Solution:

3a/8 + 4a/5 - (a/2 + 2a/5)Here the LCM of 8, 5 and 2 is 40 = [15a + 32a - (20a + 16a)]/40



By further calculation = (47a - 36a)/40= 11a/40

13. x + x/2 + x/3Solution:

x + x/2 + x/3Taking LCM = (6x + 3x + 2x)/6= 11x/6

14. y/5 + y - 19y/15 Solution:

y/5 + y - 19y/15Here the LCM of 5 and 15 is 15 = (3y + 15y - 19y)/15So we get = -y/15

15. x/5 + (x + 1)/2Solution:

x/5 + (x + 1)/2Here the LCM of 5 and 2 is 10 = (2x + 5x + 5)/10= (7x + 5)/10 Selina Solutions Concise Maths Class 7 Chapter 11 – Fundamental Concepts (Including Fundamental Operations)