EXERCISE 22(C)

1. 5 – x = 3
Solution:
Given equation is,
5 – x = 3
- x = 3 – 5
- x = - 2
We get,
x = 2
Hence, the value of x 2

2. 2 – y = 8
Solution:
Given equation is,
2 – y = 8
- y = 8 – 2
We get,
y = - 6
Hence, the value of y = - 6

3. 8.4 – x = - 2
Solution:
Given equation is,
8.4 – x = - 2
- x = - 2 – 8.4
- x = - 10.4
We get,
x = 10.4
Hence, the value of x = 10.4

4. x + 2 (1 / 5) = 3
Solution:
Given equation is,
x + 2 (1 / 5) = 3
This can be written as,
x + 11 / 5 = 3
x = 3 – 11 / 5
Taking L.C.M, we get

x = (15 – 11) / 5
x = 4 / 5
Hence, the value of x = 4 / 5

5. y – 3(1 / 2) = 2(1 / 3)
Solution:
Given equation is,
y – 3(1 / 2) = 2(1 / 3)
This can be written as,
y – 7 / 2 = 7 / 3
y = 7 / 3 + 7 / 2
Taking L.C.M. we get,
y = (14 + 21) / 6
y = 35 / 6
y = $5\dfrac{5}{6}$

Hence, the value of y = $5\dfrac{5}{6}$

6. 5(2 / 3) – z = 2(1 / 2)
Solution:
Given equation is,
5(2 / 3) – z = 2(1 / 2)
This can be written as,
17 / 3 – z = 5 / 2
17 / 3 – 5 / 2 = z
z = 17 / 3 – 5 / 2
Taking L.C.M. we get,
z = (34 – 15) / 6
z = 19 / 6
z = $3\dfrac{1}{6}$

Hence, the value of z = $3\dfrac{1}{6}$

7. 1.6z = 8
Solution:
Given equation is,
1.6z = 8
z = 8 / 1.6
z = (8 × 10) / 16
z = (1 × 10) / 2
We get,
z = 5
Hence, the value of z = 5

8. 3a = - 2.1
Solution:
Given equation is,
3a = - 2. 1
a = - 2.1 / 3
a = - 21 / (3 × 10)
We get,
a = - 7 / 10
a = - 0.7
Hence, the value of a = - 0.7

9. z / 4 = - 1.5
Solution:
Given equation is,
z / 4 = - 1. 5
z = - 1.5 × 4
We get,
z = - 6
Hence, the value of z = - 6

10. z / 6 = $-1\frac{2}{3}$
Solution:
Given equation is,
z / 6 = $-1\frac{2}{3}$
This can be written as,

z / 6 = - 5 / 3
z = - 5 / 3 × 6
z = - 5 × 2
We get,
z = - 10
Hence, the value of z = - 10

11. – 5x = 10
Solution:
Given equation is,
- 5x = 10
x = 10 / - 5
We get,
x = - 2
Hence, the value of x = - 2

12. 2.4z = - 4.8
Solution:
Given equation is,
2.4z = = - 4.8
z = - 4.8 / 2.4
z = - 48 / 24
We get,
z = - 2
Hence, the value of z = - 2

13. 2y – 5 = - 11
Solution:
Given equation is,
2y – 5 = - 11
2y = - 11 + 5
2y = - 6
We get,
y = - 6 / 2
y = - 3
Hence, the value of y = - 3

14. 2x + 4.6 = 8
Solution:
Given equation is,
2x + 4.6 = 8
2x = 8 − 4.6
2x = 3.4 / 2
x = 34 / (2 × 10)
We get,
x = 17 / 10
x = 1.7
Hence, the value of x = 1.7

15. 5y − 3.5 = 10
Solution:
Given equation is,
5y − 3.5 = 10
5y = 10 + 3.5
5y = 13.5
y = 13.5 / 5
y = 135 / (5 × 10)
We get,
y = 27 / 10
y = 2.7
Hence, the value of y = 2.7