**Expressions and Equations**

**Solving Equations using Addition and Subtraction:**

Ex (1): Solve x – 7 = -6 🡪 x – 7 = -6 🡪  **x = 1**

+ 7 +7

Ex (2): Solve y + 3.4 = 0.5 🡪 y + 3.4 = 0.5 🡪  **y = -2.9**

– 3.4 -3.4

CFU:

1. Solve d – ¼ = -1/2

1. Solve m + 4.8 = 9.2

**Solving Equations using Multiplication or Division:**

Ex (3): Solve (-3/4)n = -2 🡪 (-4/3)(-3/4)n = (-4/3)(-2) 🡪  **n = 8/3**

Equation 🡪 Multiply the reciprocal on both sides 🡪 Answer

Ex (4): Solve 9x = 3 🡪 9x = 3 🡪  **x = 3/9 = 1/3**

9 9

Equation 🡪 Isolate “x” by dividing 9 🡪 Solve “x” by simplifying

CFU:

1. Solve (1/4)y = -7
2. Solve 0.09w = 1.8

**Writing an Equation:**

A company has a **profit** of **$750** this week. This **profit** is **$900** **more than the profit** **P last week**. Which equation can be used to find P?

1. 750 = 900 – P c) 900 = P – 750
2. 750 = P + 900 d) 900 = P + 750

Words: (The profit this week) (is) ($900) (more than)(the profit last week)

Equation: 750 = 900 + P

**Answer is B**

CFU:

1. A company has a profit of $120.50 today. This profit is $145.25 less than the profit P yesterday. Which equation that can be used to find P?
2. 120.50 = 145.25 – P c) 145.25 = 120.50 – P
3. 120.50 = P – 145.25 d) 145.25 = P – 120.50