

1) Find two consecutive integers whose sum is 65.

$$\overset{1}{x} + \overset{2}{x+1} = 65$$

$$2x + 1 = 65$$

$$\underline{-1} \quad \underline{-1}$$

$$\frac{2x}{2} = \frac{64}{2}$$

$$x = 32$$

$$\boxed{32, 33}$$

2) Find two consecutive even integers who sum is 86.

$$\overset{1}{x} + \overset{2}{x+2} = 86$$

$$2x + 2 = 86$$

$$\underline{-2} \quad \underline{-2}$$

$$\frac{2x}{2} = \frac{84}{2}$$

$$x = 42$$

$$\boxed{42, 44}$$

3) Find three consecutive integers whose sum is 66.

$$\overset{1}{x} + \overset{2}{x+1} + \overset{3}{x+2} = 66$$

$$3x + 3 = 66$$

$$\underline{-3} \quad \underline{-3}$$

$$\frac{3x}{3} = \frac{63}{3}$$

$$x = 21$$

$$\boxed{21, 22, 23}$$

4) Find three consecutive ^{even} integers whose sum is 96.

$$x + x + 2 + \underline{x+4} = 96$$

$$3x + 6 = 96$$

$$\underline{-6} \quad \underline{-6}$$

$$\frac{3x}{3} = \frac{90}{3}$$

$$x = 30$$

$$\boxed{30, 32, 34}$$

5) The sum of three consecutive integers is ⁼ 19 less than the smallest.

$$x + x + 1 + x + 2 = x - 19$$

$$3x + 3 = x - 19$$

$$\underline{-x} \quad \underline{-x}$$

$$2x + 3 = -19$$

$$\underline{-3} \quad \underline{-3}$$

$$\frac{2x}{2} = \frac{-22}{2}$$

$$x = -11$$

$$\boxed{-11, -10, -9}$$