

Equations and Compound Inequalities Review

Dallas wants to add to his existing collection of 25 fish. Starting today, he will collect 5 fish each week.

a. What will be the **total** number of fish in Dallas's collection after 4 weeks?

b. Write an expression to represent the total number of fish in Dallas's collection after w weeks.

c. After how many weeks will Dallas have a total of 100 fish in his collection?

Dallas's goal is to have between 150 and 160 fish in his collection.

d. Write and solve a compound inequality to determine the number of weeks it will take Dallas to reach his goal.

Equations and Compound Inequalities Review

Onyi wants to add to his existing collection of 40 basketballs. Starting today, he will collect 2 basketballs each week.

a. What will be the **total** number of basketballs in Onyi's collection after 6 weeks?

b. Write an expression to represent the total number of basketballs in Onyi's collection after w weeks.

c. After how many weeks will Onyi have a total of 86 basketballs in his collection?

Onyi's goal is to have between 100 and 120 basketballs in his collection.

d. Write and solve a compound inequality to determine the number of weeks it will take Onyi to reach his goal.