

Do something COOL

SOYBEAN SEED CALCULATOR

Before Haila Mae planted her soybean crop, she had to buy seed. But how did she know how many bags of seed to buy? Follow these steps to find out. (You will need to read page 7 in *COOLBEAN the Soybean* before you begin.)

What you need to know

The number of seeds in each bag is _____

The number of acres that were planted is _____

The number of seeds needed for each acre is 160,000

What you do

Step 1: Do **division** to find the number of bags of seeds needed for each acre.

The number of seeds needed for each acre, 160,000, is **divided by** the number of seeds in each bag _____ **equals** _____ the number of bags of seed needed for each acre.

Step 2: Do **multiplication** to find the number of bags of seed Haila Mae bought

Multiply the number of bags needed for each acre _____ **by** the number of acres Haila Mae planted _____ **equals** _____ bags bought by Haila Mae.

Doing more

Haila Mae spaced her soybean rows 15 inches apart. How many bags of seeds would she need to plant 2,000 acres with rows 7 inches apart or 30 inches apart? How many bags of seed would Haila Mae need to plant 5,000 acres?

Use the table below to solve the problem. Write the word problem as an algebraic expression.

Space between each row	Seeds needed per acre	The number of acres	The number of bags of seeds
7 inches	210,000	2,000	
15 inches	160,000	2,000	
30 inches	130,000	2,000	
7 inches	210,000	5,000	
15 inches	160,000	5,000	
30 inches	210,000	5,000	

Let's do this!

