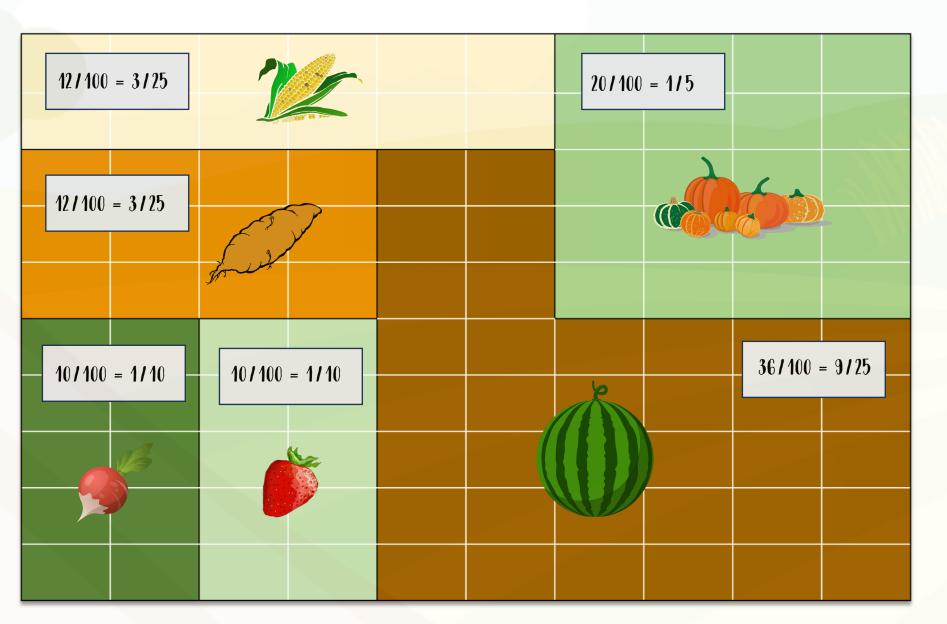
FRACTION FARMING





Math Dogs

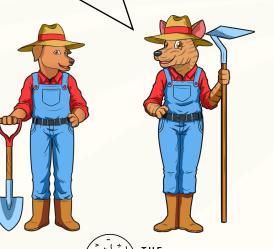
AN INQUIRY INTO MULTIPLYING AND DIVIDING FRACTIONS



YOUR FARM SHOUD HAVE:

3 ROOT VEGETABLES
1 FRUIT
1 WHEAT / CORN
1 VEGETABLE

Take a look at our
example farm on the left!
Then, create your own
and don't forget to
simplify!



WATER, WATER!

• YOUR CROPS NEED WATER TO GROW AND FLOURISH. TOO MUCH WATER, AND YOUR PLANTS WILL.... TOO LITTLE WATER....

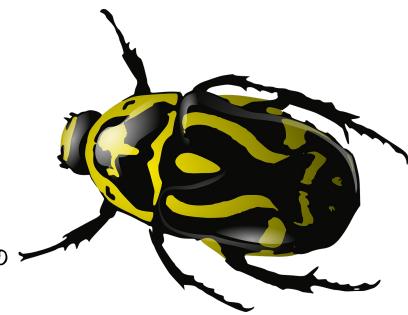
• FOR EVERY SQUARE METER, YOU'LL NEED TO WATER YOUR PLANTS:

- ROOT VEGETABLES (4/5 GALLON PER SQUARE METER)
- WHEAT/CORN (3/4 GALLON PER SQUARE METER)
- FRUITS (2/3 GALLON PER SQUARE METER)
- VEGETABLES (1/4 GALLON PER SQUARE METER)



PESTS!!!

OH NO! YOUR FARM HAS BEEN AFFECTED BY SOME PESTY PESTS. 1/3 OF YOUR CROPS HAVE BEEN WIPED OUT! CALCULATE THE NUMBER OF SQUARE METERS FOR EACH CROP THAT HAS BEEN AFFECTED!



EXAMPLE: YOUR PUMPKINS REPRESENT 20 SQUARE METERS OF YOUR FARM.

20 x 1/3 = 20/1 x 1/3 = 20/3 AS A MIXED NUMBER 6 2/3 So... 6 2/3 SQUARE METERS OF YOUR PUMPKIN PATCH IS NOW GONE!!!



LOOKING AHEAD

Each year you keep a fraction of your crops- you use that for seeds needed for the following year's crops. Then, you divide the remaining fraction of crops amongst friends.

For the example above, you'll need to divide ¾ (fraction left for your friends) by 4 (number of friends you are sharing with)

$$\frac{3}{4} \div \frac{4}{1} = \frac{3}{4} \times \frac{1}{4} = \frac{3}{16}$$



