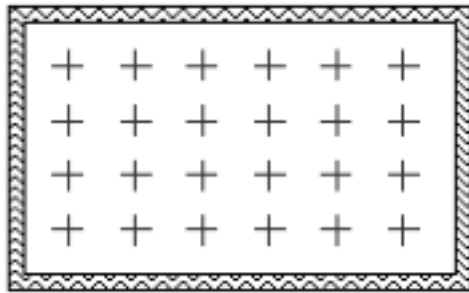


Linflower Seeds

Part 1

1. Tim grows linflowers from seeds. But not all of his seeds start to grow. He has found that for every 100 seeds he sows, only about 75 start to grow.
 - a. Tim sows 20 linflower seeds. How many would you expect to grow? Explain your reasoning.

- b. Tim sows 24 seeds in a box. Each mark on the box below shows the position of a seed.



Guess which of the seeds start to grow. Draw circles around the seeds that do *not* start to grow. (Note: There is more than one correct way to show your answer to this question.)

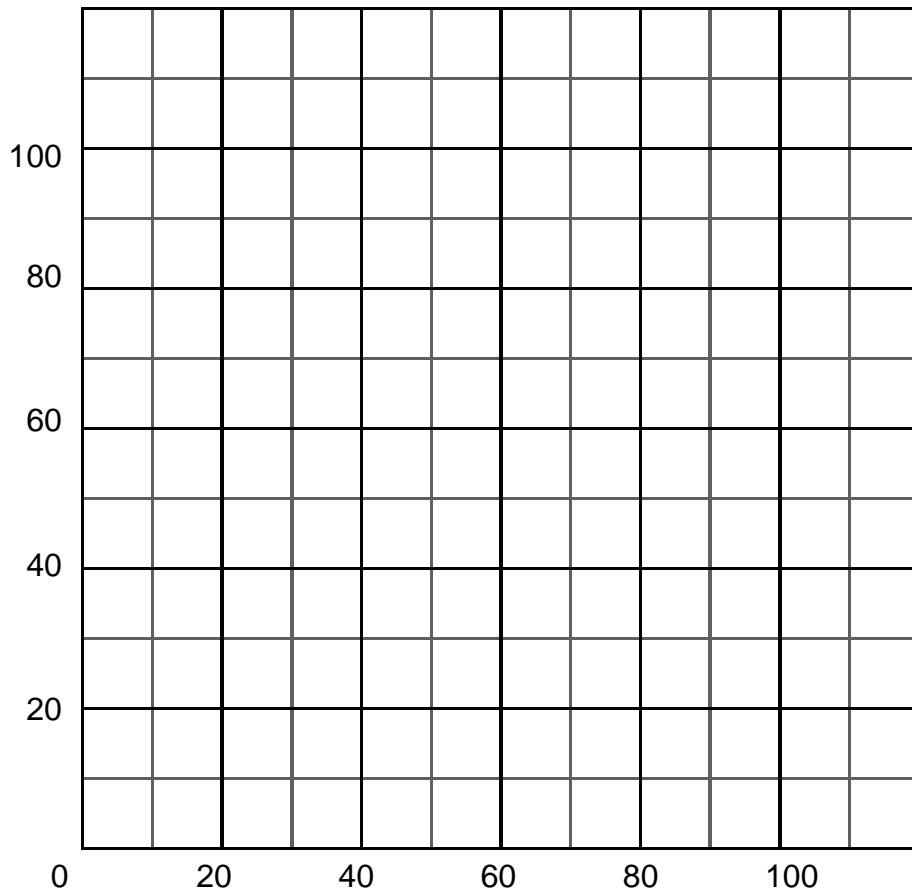
Explain your reasoning.

Part 2

2. a. Fill in the table showing the number of seeds planted compared to the number of seeds that start to grow.

Number of Seeds Planted (<i>x</i>)	0	20		60		100	
Number of Seeds That Grow (<i>y</i>)			30			75	

- b. Graph your table.



Part 3

Tim has been hired by the city to plant snapdragons in the park. Again, the number of seeds he plants does not yield the same number of flowers. Answer the following questions to help Tim plan for his park job. You get to decide how many of the planted seeds will sprout.

3. Create a table of x - and y -values that represents a proportional relationship for your snapdragons.

- a. Explain how you know the relationship is proportional.

- b. What equation models the values in the table?

4. Create a table of x - and y -values that represents a linear, non-proportional relationship.

- a. Explain how you know the relationship is non-proportional.

- b. What equation models the values in the table?