

Answers

1. $\frac{7}{20}$ 0.35 35%

2. $\frac{5}{12}$

3. a) 12% b) 94%

4. a) $\frac{1}{4}$ or $\frac{2}{8}$, 0.25, 25% b) 5 times

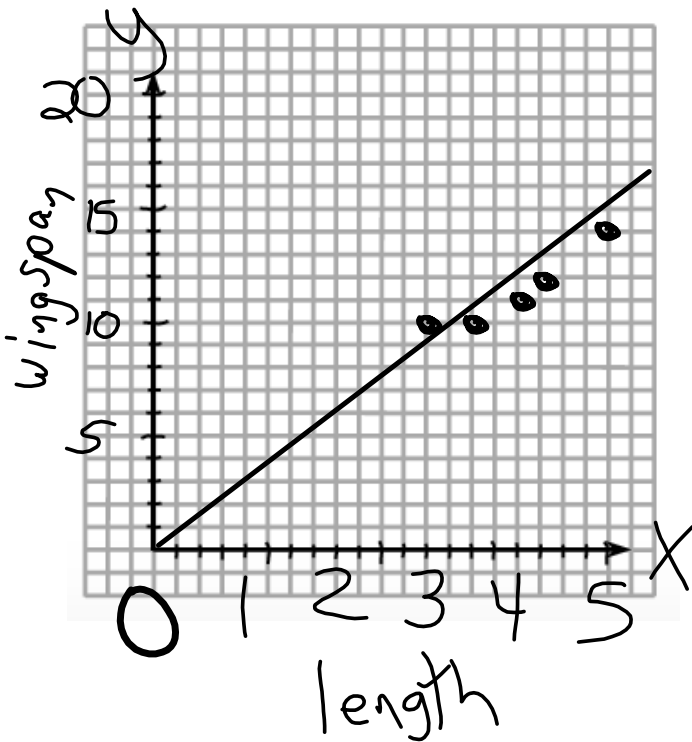
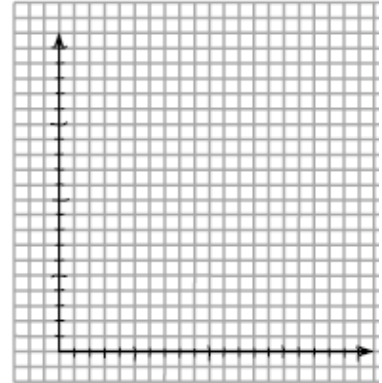
5. a) $\frac{7}{100}$ \triangle 0.07

b) 0.9 \triangle 90%

2-109. Payton has come to your team for help.

Use the resource page with a set of axes such as the ones at right to complete the following problems.

- Work with your team to decide on a scale for each axis that will make Payton’s data (from problem 2-106) easy to see.
- Then, on your own paper, draw axes, mark your scales, and plot Payton’s data points.



Bats in Tennessee – Typical Body Measurements

Type of Bat	Length (inches)	Wingspan (inches)
Big Brown Bat	5	14
Little Brown Bat	3.5	10
Brazilian Free-Tailed Bat	2.35	12
Evening Bat	4	11
Indiana Bat	3	10

Use a ruler to fit a straight line to the dots.

use the information she found to make predictions about the bats.

- The common vampire bat is native to northern Mexico and Central and South America. It feeds on the blood of sleeping cows by making very small cuts into their skin and then licking the wounds.

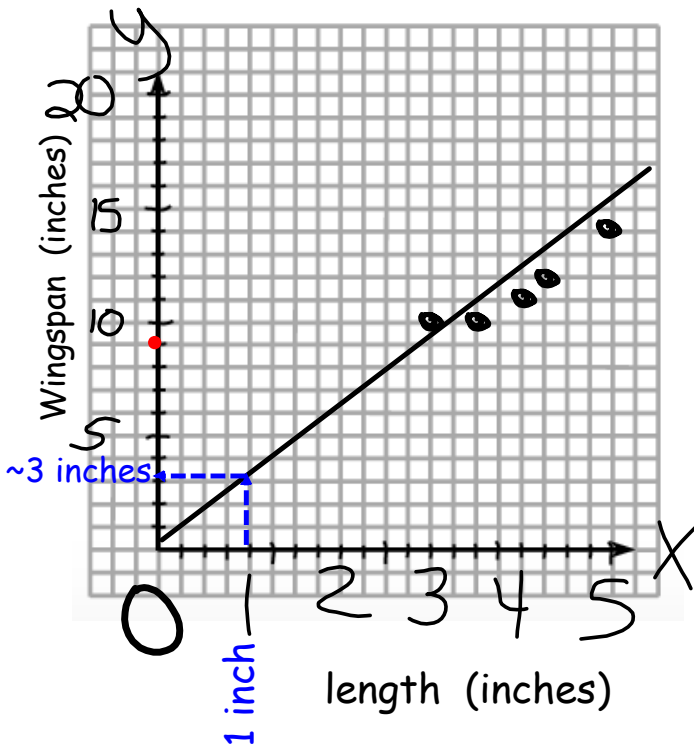
Use your graph of bat length and wingspan to predict the wingspan of the common vampire bat if it typically has a length of about 2.75 inches.



- b. The Kitti's hog-nosed bat, also called the bumblebee bat, is the world's smallest bat and also the world's smallest mammal! It lives in Thailand and Myanmar. It weighs less than a tenth of an ounce (less than a penny) and is only about one inch long!



Make a prediction for the wingspan of the Kitti's hog-nosed bat. Be prepared to explain your thinking to the class.



About 3 inches

Challenge B: To use the pool at the Columbus Recreation Center, guests must pay one annual membership fee and then another small fee each time they swim. Jeff and his five friends kept track of how many times they visited the pool in one year and how much money they each spent.

Number of Visits	Cost (dollars)
18	\$53
29	\$65
100	\$135
84	\$119
62	\$97
114	\$149

