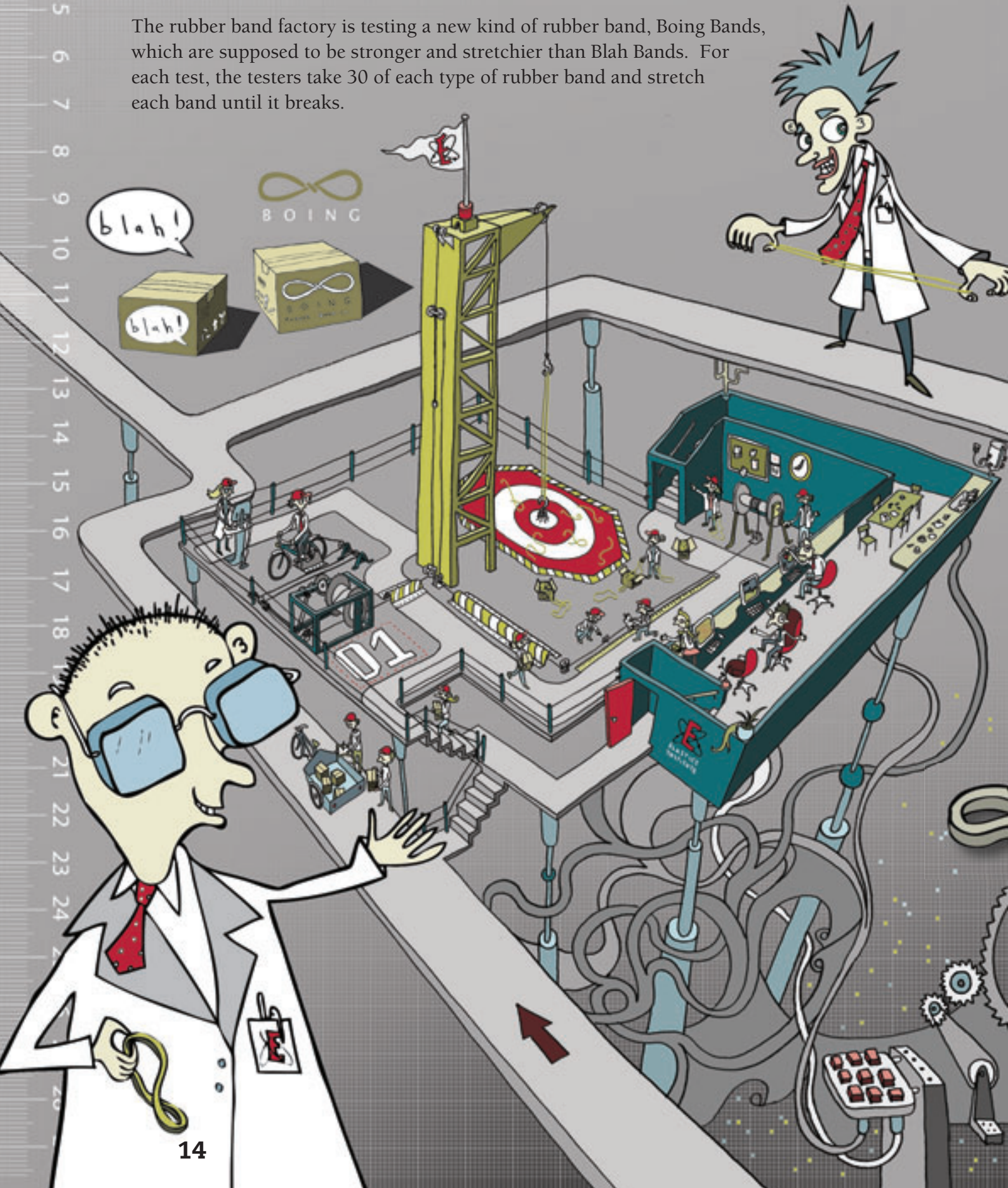


Fully Stretched

You need ★ two different kinds of rubber bands ★ classmates

The rubber band factory is testing a new kind of rubber band, Boing Bands, which are supposed to be stronger and stretchier than Blah Bands. For each test, the testers take 30 of each type of rubber band and stretch each band until it breaks.



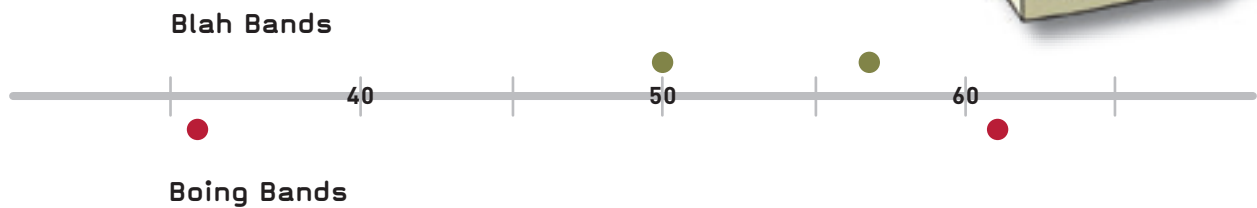


The testers then record in centimetres how far each band stretched before it broke. Here are the results for one of the tests:

	Length of stretch at breaking point (centimetres)														
Blah Bands	50	57	45	55	47	43	54	49	51	46	52	50	48	48	53
	49	51	44	49	47	50	56	53	52	48	44	49	57	49	60
Boing Bands	61	36	58	40	61	51	53	58	60	60	52	53	57	59	41
	50	54	52	59	60	62	53	38	60	61	56	55	65	47	43

Activity One

- To help you compare the strengths of the two different types of bands, create a back-to-back dot plot, starting like this:



- With a classmate, discuss whether Boing Bands are “stronger and stretchier” than Blah Bands. Write down your reasons for your opinion or decision.

Activity Two

Working with a classmate, design and carry out a similar experiment with two different brands of rubber bands.

- Graph the results using a dot plot or another kind of graph. What does the data tell you?
- How sure are you that the results of your experiment give you a true picture?
- Write a brief report on your experiment and your findings.
- Give your report to another pair of classmates and ask them to review it for you.



Activity Three

With a classmate, think of some other products you could compare by testing. If someone tested these products for you, what kinds of information would you be looking for and what kinds of graphs could best display that information?