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# Broken Measures

## Pre-Activity

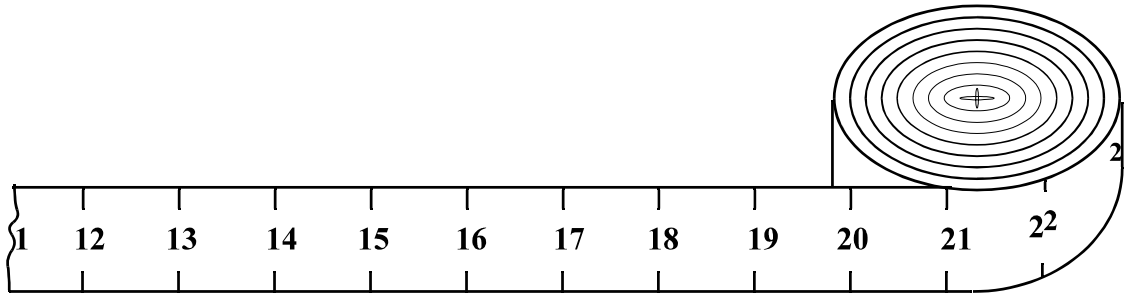
A veterinarian who cares for sick cats and dogs has to be able to weigh them.

As you probably know, it is hard to get a cat or dog to stand still on a scale.

How do you think the “vet” weighs these animals?

- 1a.** A 6 foot 2 inch tall veterinarian who weighs 185 pounds gets on a scale holding a large cat. The scale reads 201 pounds. How much does the cat weigh?
- 1b.** Patrick owns the cat whose weight you found in question **1a**. Patrick is 4 feet 3 inches tall and weighs 70 pounds. If he were to get on his scale at home with the cat, what would his scale read?
- 2.** The clock in your classroom is always seven minutes fast. If the clock reads half past eleven, what is the real time?

3. **Your measuring tape was cut.** Here is a picture of the piece you have left. Figure out a way to measure length with this remaining piece of measuring tape, and explain how you would do it.



**Extension:**

4. Your teacher will measure the height of one person in your class, and tell you the height in inches. Using **just this information**, without rulers or any other measuring instrument, explain how everyone else in the class could estimate their own height.