Learning Goals

- Distinguish between the basic data types in R, including doubles, characters, and logical values.
- Create, manipulate, and coerce vectors while understanding how R recycles shorter vectors.
- Use built-in statistical functions and know how to the basics of index selection.
- Define and work with factors and ordered factors to represent categorical and ordinal data, including setting and renaming levels.

Key Terms and Concepts

1	What	is	a.	vector	in	R?
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- 2. What does R do when you mix data types in a vector?
- 3. What are categorical variables called in R?
- 4. What is the difference between a nominal and an ordinal factor?
- 5. Write the code to create a vector with the values 5, 7, 9, 8
- 6. Write the code to display the second and forth element for the vector above

For each of the following functions below write down a brief definition of what it does

and a basic example						
• c()						
• class()						
• typeof()						
• factor()						
• levels()						
• sample()						
• mean()						
• sd()						
• range()						
• sort()						