

Draw a tape diagram to represent the number of nonfiction books.

How did you decide how many sections this tape diagram would have?

Represent the number of nonfiction books in the library algebraically.

Use the tape diagrams we drew to solve the problem.

Write an equation that represents the tape diagram.

Determine the value of r .

How many fiction books are in the library?

How many nonfiction books are in the library?

Set up a table with four columns and label each column.

How many fiction books are in the library?

How many nonfiction books are in the library?

How many resource books are in the library?

Does the library have four times as many fiction books as resource books?

Does the library have half as many nonfiction books as fiction books?

Does the library have 1,400 books?

3. The art teacher, Mr. Gonzalez, is preparing for a project. In order for students to have the correct supplies, Mr. Gonzalez needs 10 times more markers than pieces of construction paper. He needs the same number of bottles of glue as pieces of construction paper. The number of scissors required for the project is half the number of pieces of construction paper. If Mr. Gonzalez collected 400 items for the project, how many of each supply did he collect?
4. The math teacher, Ms. Zentz, is buying appropriate math tools to use throughout the year. She is planning on buying twice as many rulers as protractors. The number of calculators Ms. Zentz is planning on buying is one quarter of the number of protractors. If Ms. Zentz buys 65 items, how many protractors does Ms. Zentz buy?