Do Now

Please place your homework in front of you and work silently on this Do Now. Thank you!
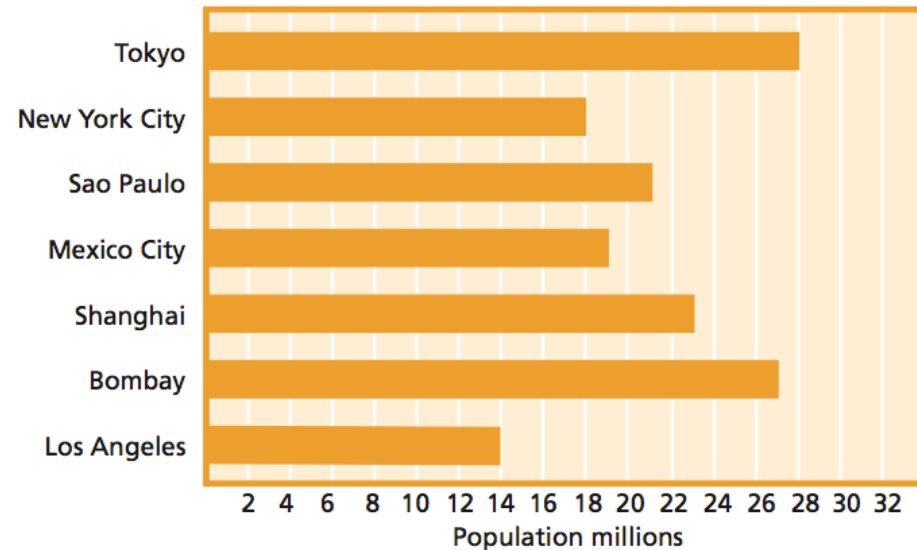
Use the horizontal bar graph to answer the questions below.

Which city has the greatest projected population for 2015?

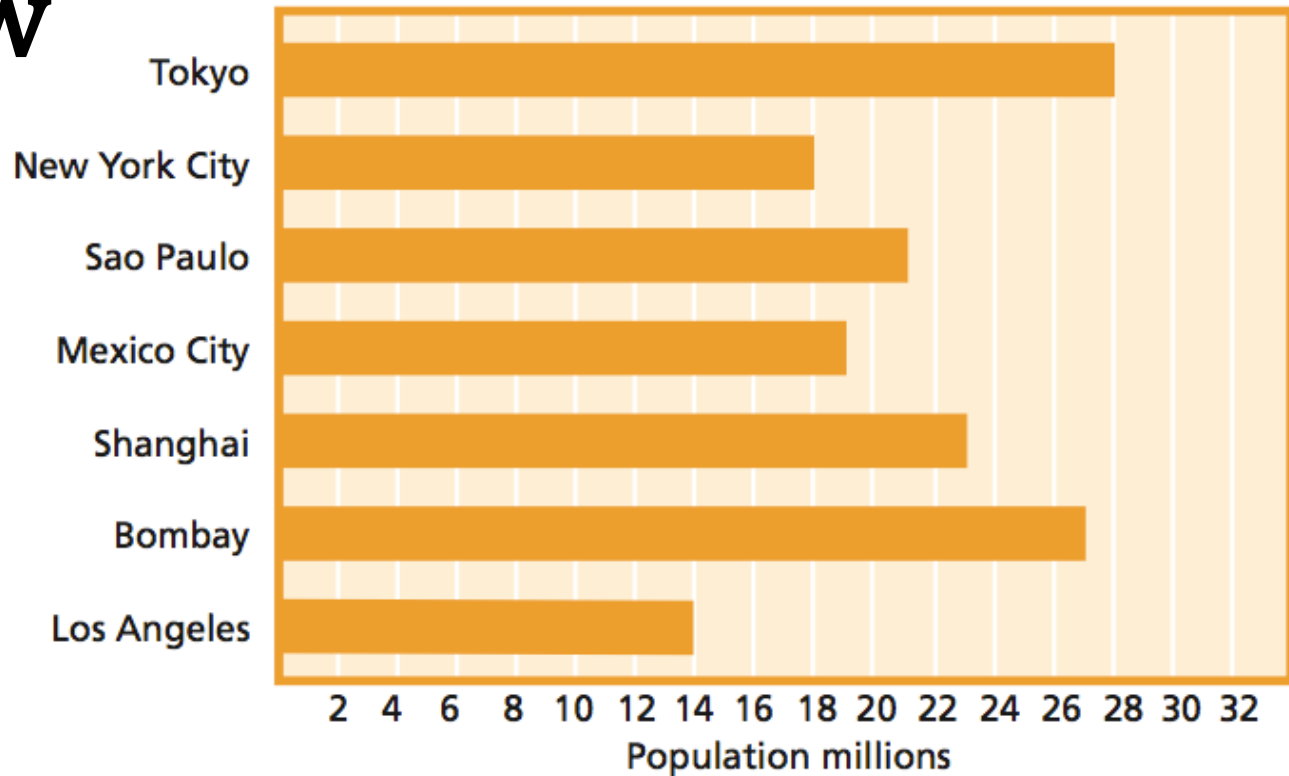Which city has a projected population of 23 million for 2015?

How many more people are projected to be living in Mexico City than in Los Angeles?

Projected Population of Selected Cities for 2015

Tokyo
New York City
Sao Paulo
Mexico City
Shanghai
Bombay
Los Angeles

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32
Population millions

Do Now

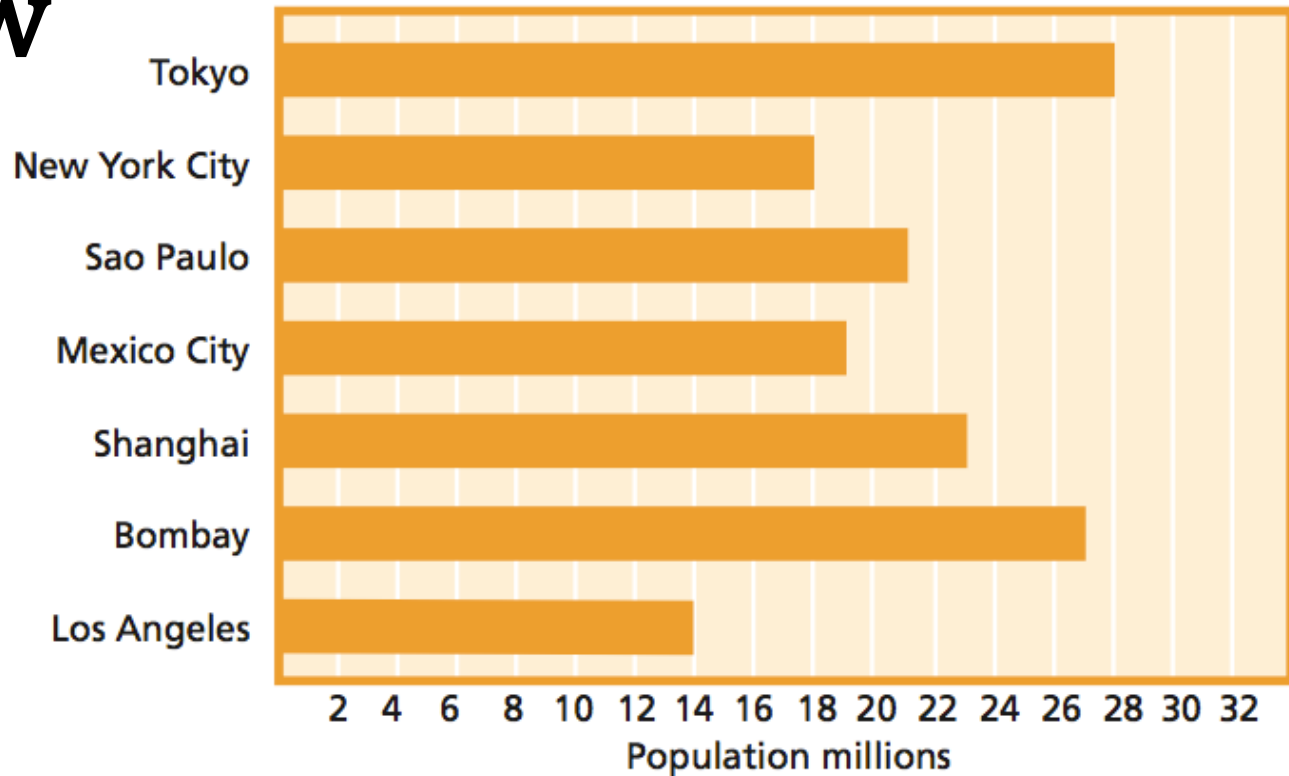**Projected Population of Selected Cities for 2015**

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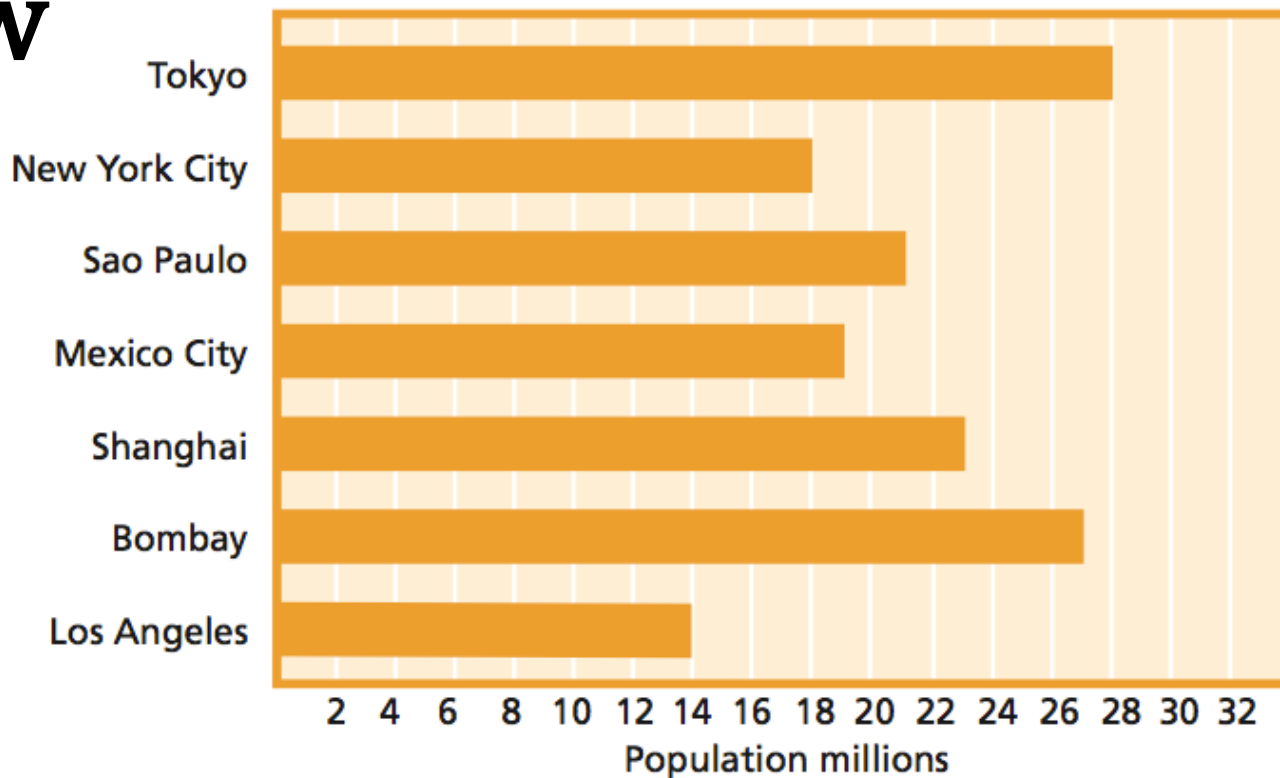# Do Now

Projected Population of Selected Cities for 2015

Use the horizontal bar graph to answer the questions below.

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Do Now

Projected Population of Selected Cities for 2015

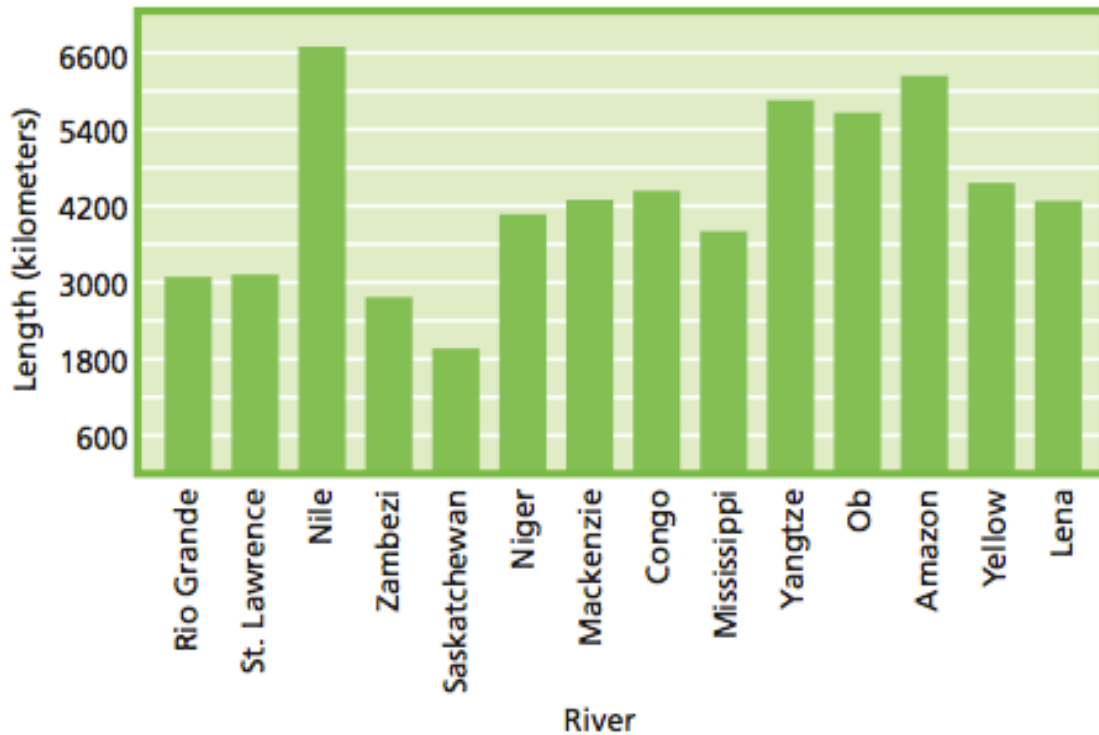Use the horizontal bar graph to answer the questions below.

How many more people are projected to be living in Mexico City than in Los Angeles?

NOTES

In a **bar graph**, horizontal or vertical bars display data. A scale is used to show intervals.

World's Longest Rivers
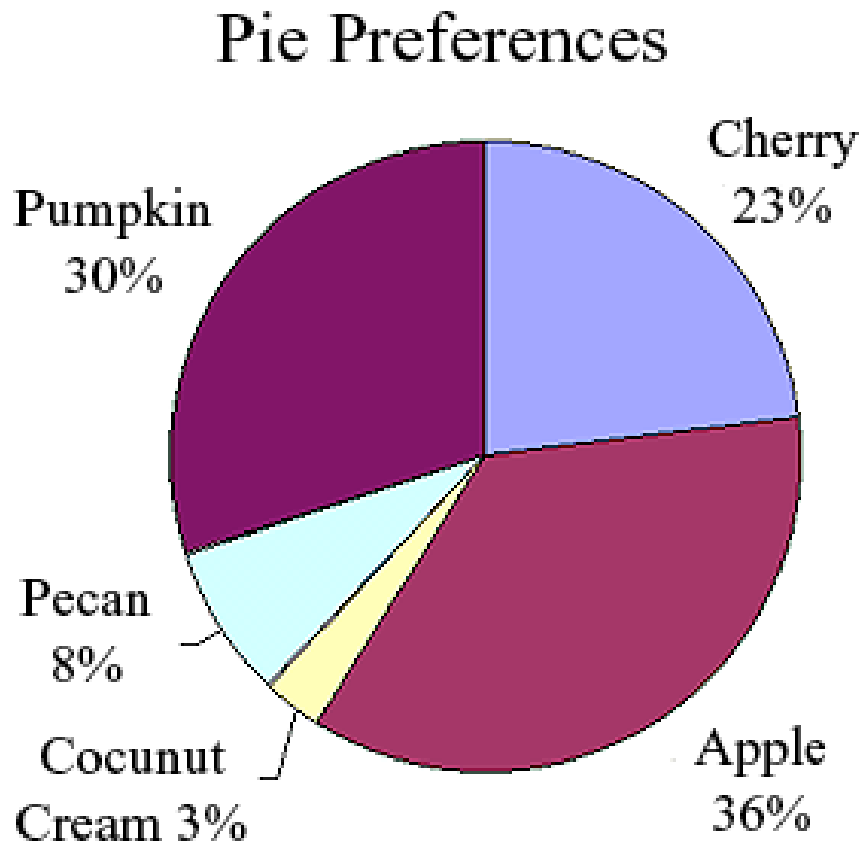
Bar graphs are most useful for:

Displaying data in categories.

Circle graphs, also display data in categories, so how do they differ from bar graphs?

Pie Preferences

Cherry 23%

Pumpkin 30%

Pecan 8%

Cocunut Cream 3%

Apple 36%

On a **line graph**, points representing data are plotted, then connected with line segments. Because the points are connected in sequence, a line graph shows trends, or changes, in data (usually over a period of time).

Number of Bacteria
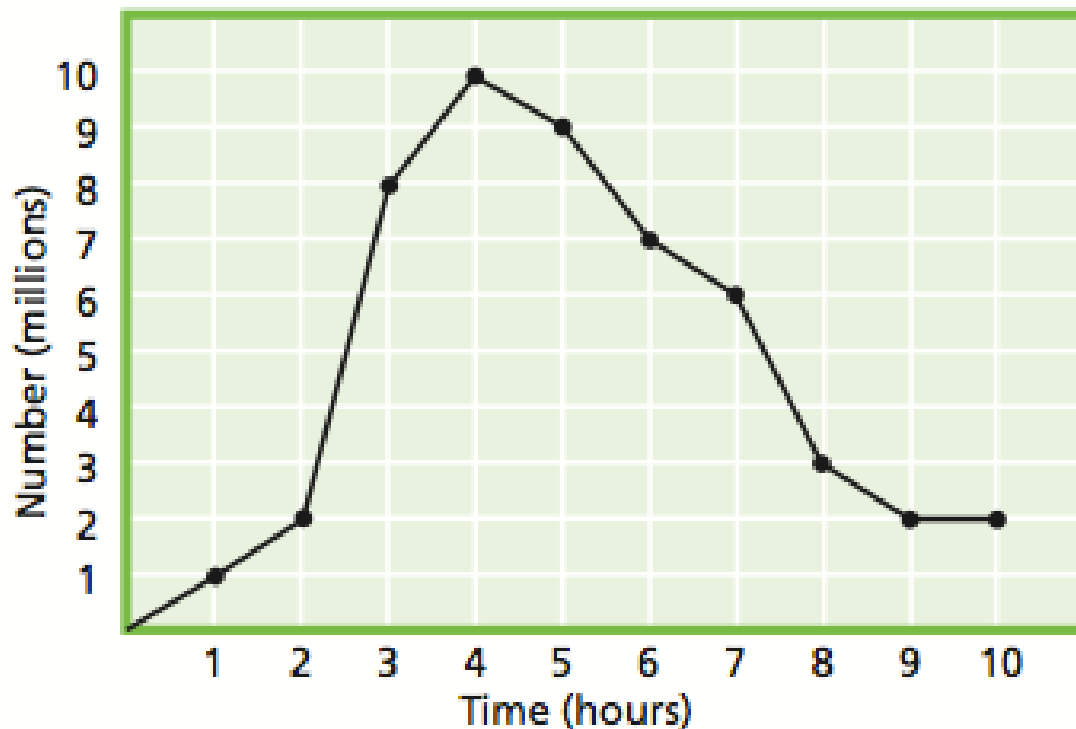
Line graphs are most useful for:

Tracking changes, usually with time as the independent variable.

Selecting a display

Jesse and Lucas want to plan a kayaking trip in Colorado. They know that the average temperatures for the area are: 56 degrees in May, 62 degrees in June, and 71 degrees in July. What would be the most appropriate display to graph this data?

Selecting a display

Ana owns a bakery. To get an idea of what her customers like, she counts how many of each item she sells. In one week, she sells 16 pies, 15 loaves of bread, 20 cheesecakes, and 12 cakes. What would be the most appropriate display for graphing this data?

Selecting a display

During a month long sale, an electronics store sells the following number of televisions each week. What would be the most appropriate display for graphing this data?

Week		1	2	3	4
Number of Televisions Sold		8	10	6	14

Selecting a display

A gardener has $\frac{1}{2}$ his garden planted with beans, $\frac{3}{16}$ with tomatoes, $\frac{1}{16}$ with spinach, and $\frac{1}{4}$ with corn.

What is the most appropriate display to graph this data?

Making a line graph

In pairs, we will record some data to make a line graph.

File managers, please distribute the sheet behind tab B. You only need one sheet per pair of students.

One student will be jumping in place while the other student keeps count of their total number of jumps and records it in the table every 10 seconds.

We will jump in place to some music.

Time (seconds)	Jumper 1 Total jumps
10	
20	
30	
40	
50	
60	
70	
80	
90	

I'm jumping while holding a huge sign.

Whip My Hair (Willow Smith)   Jump (Kris Kross)

Party Rock (KidzBop)   Shake it Off (KidzBop)