Statistical Reasoning
Picking a Simple Random Sample

Name:

Below is a list of all the national parks in the United States.

Acadia National Park
Arches National Park
Badlands National Park
Big Bend National Park
Biscayne National Park
Black Canyon of the Gunnison National Park
Bryce Canyon National Park
Canyonlands National Park
Capitol Reef National Park
Carlsbad Caverns National Park
Channel Islands National Park
Congaree National Park
Crater Lake National Park
Cuyahoga Valley National Park
Death Valley National Park
Denali National Park
Dry Tortugas National Park
Everglades National Park
Gates of the Arctic National Park
Glacier Bay National Park
Glacier National Park
Grand Canyon National Park
Grand Teton National Park
Great Basin National Park
Great Sand Dunes National Park
Great Smoky Mountains National Park
Guadalupe Mountains National Park
Haleakala National Park
Hawaii Volcanoes National Park
Hot Springs National Park
Isle Royale National Park
Joshua Tree National Park
Katmai National Park
Kenai Fjords National Park
Kings Canyon National Park
Kobuk Valley National Park
Lake Clark National Park
Lassen Volcanic National Park
Mammoth Cave National Park
Mesa Verde National Park
Mount Rainier National Park
National Park of American Samoa
North Cascades National Park
Olympic National Park
Petrified Forest National Park
Redwood National Park
Rocky Mountain National Park
Saguaro National Park
Sequoia National Park
Shenandoah National Park
Theodore Roosevelt National Park
Virgin Islands National Park
Voyageurs National Park
Wind Cave National Park
Wrangell-St. Elias National Park
Yellowstone National Park
Yosemite National Park
Zion National Park

Describe a method of picking 10 random national parks if given a string of random digits.

Use your method along with the random digits below to randomly select 10 national parks.

61424	20419	86546	00517	02429	19761	15370	43882
90222	27993	04952	66762	90519	61988	40164	15815
50349	71146	97668	86523	20631	88967	19660	89624
85676	10005	08216	25906	89990	78733	16447	27932

Disciplinary Committee

The faculty disciplinary committee at a local school specifies that a 5-member hearing panel shall be drawn at random from the 30-member faculty. The school intends to draw an SRS of size 5 from the following list of faculty.

Abel	Adler	Calderon	Diener	Eisinger
Ewbank	Foley	Gonzales	Hay	Ismail
Kirby	Levy	Lowe	Martinez	Miller
Mork	Perrucci	Rothenberg	Santogrossi	Schrag
Staaks	Steer	Targ	Toal	Walther
Weinstein	Winer	Wu	Young	Zhang

a) In your own words, tell the school how to go about obtaining an SRS of 5 faculty members using the partial random digits table below. Be very specific so they can follow your instructions with ease.

b) Use the partial table of random digits below to select an SRS of 5 faculty members by using the method you described in part (a). Mark directly on the table to show your process clearly.

08421	44753	77377	28744	75592	08563	79140	92454
27816	78416	18329	21337	35213	37741	04312	68508