Each person has one of eight blood types. The data below from the American Red Cross shows what fraction of the population has each blood type. A person who needs a blood transfusion cannot receive blood from just anyone. The blood must be a certain type, or complications arise, and the person could even die.

A+	A-	B+	B-	AB+	AB-	O+	0-
17	3	2	3	1	1	39	7
50	50	$\overline{25}$	${200}$	$\overline{25}$	${200}$	100	100

The following table lists the types of blood that a person of each blood type can receive.

Patient Type	Can RECEIVE types	Patient Type	Can RECEIVE types
A+	A+, A-, O+, O-	AB+	All types
A-	A-, O-	AB-	A-, B-, AB-, O-
B+	B+, B-, O+, O-	O+	O+, O-
B-	В-, О-	0-	O-

Simplify all answers.

1.	Which blood type is the most common?					
2.	Which blood type is the least common?					
3.	The sum of all of the blood types is					
4.		A+	B+			
	Determine the fraction of the population from which each	A-	B-			
	Determine the fraction of the population from which each patient type can receive blood.	AB+	O+			
		AB-	O-			
5.	If a person can receive a large number of blood types, can that person receive blood from a larger fraction of the population? Explain.					
	People with O- blood are known as "universal donors." Why do you think they are called this?					
6.						
7.	A "universal recipient" is a person who can receive blood from anyone, regardless of their blood type. What fraction of the population are universal recipients? Explain.					