

Organs extension activity sheet

Matching donors to patients

- 1** Find a matching donor for as many of the three kidney transplant patients as you can. You may have to make difficult decisions about who can receive a new kidney, and who has to remain on a kidney machine. And remember! A patient and donor should have compatible blood group and HLA numbers.

Kidney transplant patients:

Renie



Blood group **A**
HLA numbers
2 3 5 6 7 10

Renie is a 75 year old retired dinner lady. She lives with her husband and 3 dogs and is passionate about crossword puzzles.


Sinita



Blood group **A**
HLA numbers
2 3 5 6 7 10

Sinita is a 49 year old mother of three teenage children. She runs her own catering company.

Peter



Blood group **A**
HLA numbers
2 3 5 6 7 10

Peter is a 21 year old who has just left University. He is hoping to train to be an English teacher.

Possible kidney donors:

Donor 1
Blood group **O**
HLA numbers
2 3 5 6 7 10

Donor 2
Blood group **O**
HLA numbers
4 8 9 10 11 13

Donor 3
Blood group **O**
HLA numbers
2 3 6 7 10 12

Donor 4
Blood group **A**
HLA numbers
2 5 6 7 10 12

Donor 5
Blood group **AB**
HLA numbers
2 3 5 6 7 12

Donor 6
Blood group **A**
HLA numbers
2 3 5 7 10 12

Donor 7
Blood group **O**
HLA numbers
3 5 6 7 10 12

Donor 8
Blood group **A**
HLA numbers
2 3 5 6 7 12

Donor 9
Blood group **B**
HLA numbers
3 4 8 9 11 13

Donor 10
Blood group **O**
HLA numbers
2 3 5 6 10 12

Tick to indicate whether each patient will receive a kidney transplant OR remain on a kidney machine. Where you have chosen kidney transplant, write the donor number.

Renie will: have a kidney transplant from donor ____ OR remain on a kidney machine

Sinita will: have a kidney transplant from donor ____ OR remain on a kidney machine

Peter will: have a kidney transplant from donor ____ OR remain on a kidney machine

- 2** a. Describe how you reached your decisions for Renie, Sinita and Peter.

b. Sinita received a kidney from a relative. Who do you think that relative might be and why?