

9Ab Inherited variation

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- 1) skin colour, 'leaf' colour, flesh colour, size, shape.
- 2) a) her father.
b) hair colour.
- 3) Environmental variation is caused by factors in your surroundings but you get inherited variation from your parents.
- 4) T and Y are brothers; U, W, X and Z are brothers (the actors Alec, Stephen, Daniel and Billy Baldwin); V is not related to anyone else in the photo.
- 5) nucleus.
- 6) hair colour, eye colour, handedness, blood group, etc
- 7) Foot length can be any value (some people have very short feet and some people have very long feet and any value between those two extremes is possible. Shoes are only available in certain sizes and so are an example of discontinuous variation.
- 8) inherited variation and diet.
- 9) height of plant, size of tomatoes; as well as genes, these are also affected by e.g. water, feeding, light.

10 a

	inherited	environmental	continuous	discontinuous
natural eye colour	✓			✓
skin colour	✓	✓	✓	
having a scar		✓		✓
hair length		✓	✓	
naturally curly hair	✓			✓
blood group	✓			✓
speaking Welsh		✓		✓
dimpled chin	✓			✓
wearing a watch		✓		✓
height	✓	✓	✓	

b height