

SC.912.L.16.1 – Genetics – Example 4 Answer

Hitchhiker's thumb (H) is dominant to no hitchhiker's thumb (h). A woman who does not have hitchhiker's thumb marries a man who is heterozygous for hitchhiker's thumb. What is the probable genotypic ratio of their children?

- A. 0% Hh: 100% hh
- B. 50% Hh: 50% hh
- C. 75% Hh: 25% hh
- D. 100% Hh: 0% hh

Answer

The Punnett square for this problem would look like this.

		Mother	
		h	h
Father	H	Hh	Hh
	h	hh	hh

So the answer is B: 50% Hh: 50% hh.