

Polydactyly is having extra fingers or toes and is caused by a dominant allele. A father with polydactyly has the genotype Pp but his wife does not have the condition and has the genotype pp.

01.3 Complete the Punnett square.

[2 marks]

		Female gametes	
		p	p
Male gametes	P		
	p		

01.4 Draw a ring round **one** offspring with polydactyly.

[1 mark]

01.5 What is the probability that a child of this couple would **not** inherit polydactyly?

[1 mark]

Tick **one** box.

- 0.00
- 0.25
- 0.50
- 1.00

01.6 Sometimes a child is born with polydactyly when neither parent has the condition. What caused this condition to appear?

[1 mark]