

General Principle 5

A male of genotype aaBb was crossed with a female of genotype AaBb.

Complete the table below by:

- 1 inserting the genotypes of the male and female gametes 1
- 2 showing the possible genotypes of the offspring. 1

MARKING INSTRUCTIONS.

Gametes		Female			
		AB	Ab	aB	ab
Male	aB	AaBB	AaBb	aaBB	aaBb
	ab	AaBb	Aabb	aaBb	aabb

1 Both male gamete genotypes plus all four female gamete genotypes correct = 1 mark

2 All eight offspring genotypes correct = 1 mark

Candidate response:

Gametes		Female			
		AB	Ab	aB	aB*
Male	aB	AaBB	AaBb	aaBB	aaBB
	ab	AaBb	Aabb	aaBb	aaBb.

One of the female gametes for part 1 of the answer is incorrect. 1st mark NOT awarded.

These gametes, shown by the candidate, are next used correctly to show possible genotypes of the offspring. 2nd mark awarded.