

1. Jean grows geranium plants. Her favourite geranium has purple flowers.

She takes a cutting from her favourite plant.

After 10 days, roots start to develop.

Explain why Jean takes a cutting from the geranium and does not grow the plant from a seed.

[3]

2. Sea anemones can reproduce asexually.

Give **one** advantage and **one** disadvantage of this method of reproduction.

Advantage _____

Disadvantage _____

[2]

Question			Answer/Indicative content	Marks	Guidance
1			<p>idea that colour / flower will be the same ORA for seeds;</p> <p>ref. to clone / genetically identical; ORA for seeds;</p> <p>taking a cutting is a faster process / seeds would take longer to grow into a plant; ORA</p>	3	<p>Ignore cost</p> <p>Examiner's Comments</p> <p>This required an explanation of the benefits of taking a cutting rather than growing from seed. The word clone was often seen as was the fact that a faster result would be expected, but marks were lost by vague references to the plants being the same, rather than specifically stating that the flower colour would be.</p>
			Total	3	
2			<p>1. Advantage: (can be) fast / no need to find a mate ✓</p> <p>2. Disadvantage: lack of genetic diversity / are all genetically identical ✓</p>	2	<p>MP2 ALLOW 'are clones'</p> <p>DO NOT ALLOW 'are all identical'</p>
			Total	2	