Asexual Reproduction

Sexual Reproduction

produces offspring

involves I individual offspring genetically identical to parent faster gametes not produced (typically)

involves 2 individuals offspring genetically unique from parent slower gametes produced

- a) asexual reproduction (females only, no males) parthenogenesis
 - b) any reasonable advantage such as:

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- females can reproduce without male sharks present
- l'emales can reproduce more quickly compared lo sexual reproduction
- c) any reasonable advantage such as:
 - offspring will show variation, : more likely to have adaptive feature / population more resilient in changing environment
- Stolons is a method of asexual reproduction, whereas strawberries is a part of sexual reproduction. Being able to utilize both methods allows more versitility and resiliency for the plant. Some situations may favour asexual, such as if conditions around plant is ideal so forming clones would be successful or if pollinators /other plants are scarce Some situations may favour sexual, allowing for more diversity and spreading of offspring away from parent
- (4) Many possible examples. Honcybees are responsible for many crops including: Kiwi, potato, onion, cashews, celery, strawberries, coffee, broccoli, beets, blueberry, watermelon, cucumbers, lemon, lime, currets, apple, avocado, mango, raspberry, etc.

(5)		Internal fertilization	External fertilization
	Advantages	Greater chance of fertilization lower number of gametes required more protection for embryo (higher survival) more selective of mates	Parents don't need to be in same location at same time larger amount of offspring produced
	Disadvantages	Parents must be in same location at same time lower amount of offspring produced	larger number of gametes required less/no protection for embryo (lower survival) less scleetive of mates larger number of gametes required
6		Insect Pollination	Wind Pollination
	Advantages	reprocess is species specific - pollinators typically only visit specific plants, allowing more success rot reliant on favourable weather conditions reliant pollen needs to be produced	no need to produce petals, nectar, fruit - energy saving not reliant on another species - more self-sustaining
		x reliant on another species - if insect is in trouble	X reliant on favourable weather conditions
	Disaduantages		× much pollen needs to be produced
		x need to produce petals, nectar, fruit - all energetically costly	X less chance of successful pollination

(7) More variation means there is a greater chance an individual has an advantageous characteristic /adaptive feature which allows them more survival and reproductive success. Natural selection requires variation to select. If all members are the same, there is no feature which is better or worse-suited. If environment changes and adaptive feature is not present, higher likelihood of death