The space shuttle has deployed a 20 km-long tether. At the end, there is a relatively light satellite.The shuttle is at the bottom end and the satellite at the top.

The tether is cut. What happens?

A	Nothing, the satellite and space shuttle stay at their pre-cut altitude	0	✗
B	The satellite climbs significantly	0	✓
C	The shuttle climbs significantly	0	✗
D	The shuttle lowers its altitude significantly	0	✗
E	The shuttle lowers its altitude slightly	0	✓

What's a rideshare launch?

A	A rocket that deploys a few satellites into very well defined orbits	0	✗
B	A rocket that deploys tens to hundred satellites into a defined injection orbit	0	✓
C	A rocket that injects satellites into different orbits (there are multiple injection/manoeuvre sequences)	0	✗

What are example of old space?

A	The Starlink constellation	0	✗
B	The Hubble Space Telescope	0	✓
C	The ISS	0	✓
D	The James Webb Space Telescope	0	✓
E	Umbra - A private radar observation constellation	0	✗

What is a satellite constellation?

A	A group of satellites working together	0	✓
B	A group of satellites that appear just like astronomical constellation in the night sky	0	✗
C	A group of satellites made by the same manufacturer that have different missions	0	✗
D	A group of satellites that have the same mission, but different manufacturer, orbits and operations	0	✗

What does street of coverage mean?

A	A region devoid of coverage	0	✗
B	The region of coverage by a single satellite	0	✗
C	The number of satellites needed for contiuous global coverage	0	✗
D	A region of continuous coverage by mutliple satellites	0	✓

Which statement about the Outer Space Treaty is wrong?

A	The Treaty bans the use of weapons of mass destruction in space	0	✗
B	The Treaty states that space exploration should be for the benefit for all	0	✗
C	The Treaty grants territorial claims to the first arrived state	0	✓
D	The State that launches a space object retains jurisdiction and control over that object.	0	✗

What is the probability of collision Pc?

A	Pc is the probability that two objects will be at the same altitude and inclination	0	✗
B	Pc is the probability that the miss distance between two objects is less than the sum of their safety-radii.	0	✓
C	Pc is the probability that the radio emissions of 2 objects collide	0	✗
D	Pc is the collision probability between 2 objects which cannot be computed analytically	0	✗

What statement is wrong about a collision avoidance (COLA) manoeuvre?

A	COLA aims at maximising the miss-distance	0	✗
B	COLA aims at minimising the Δv	0	✗
C	COLA occurs one to a few orbits before TCA	0	✗
D	To compute the COLA, one can assume that there is only one encounter and no other object	0	✓