Marine World

Given the following areas and distance, in km, between them.
*The numbers in brackets specify the population size of the area.

	Coral	Valley	Reef	Algae	Shell	Salt
Coral (210)	0					
Valley (2047)	210	0				
Reef (256)	56	250	0			
Algae (512)	40	265	125	0		
Shell (127)	157	245	356	222	0	
Salt (8100)	300	1024	270	260	110	0

In addition to the above specification, there's a group Rocky who live in Mount Koya.

- Choose an appropriate network address and create subnets to assign to each of the places with the least amount of waste.
- Assign IP addresses to all the devices and interfaces.
- Rocky (64) have a web server to spread news among them. Everyone in the Marine World can access this web server.
- Establish connections among all the networks with the shortest route possible.
    - Must have at least one floating route.
    - Must have a backup system to handle missing routing entries.
    - For assigning IP addresses in Shell (127) use DHCP server.
    - Configure at least one network to be routed dynamically and rest to be routed statically.
- Showing 2 end devices per network is good enough to represent the whole population.
    - Rocky has laptops and printers
- You need to be able to ping each other after all the setups are complete.

Deliverables

- The network mentioned above should be implemented in packet tracer, with necessary devices and full configuration.
- After completion you should be able to test the conditions imposed.
- As hardcopies, you will have to submit the followings:
    - Network topology diagram with proper labels
    - The configurations of all the routers that you have implemented.
    - VLSM/Network address table.
    - IP address table