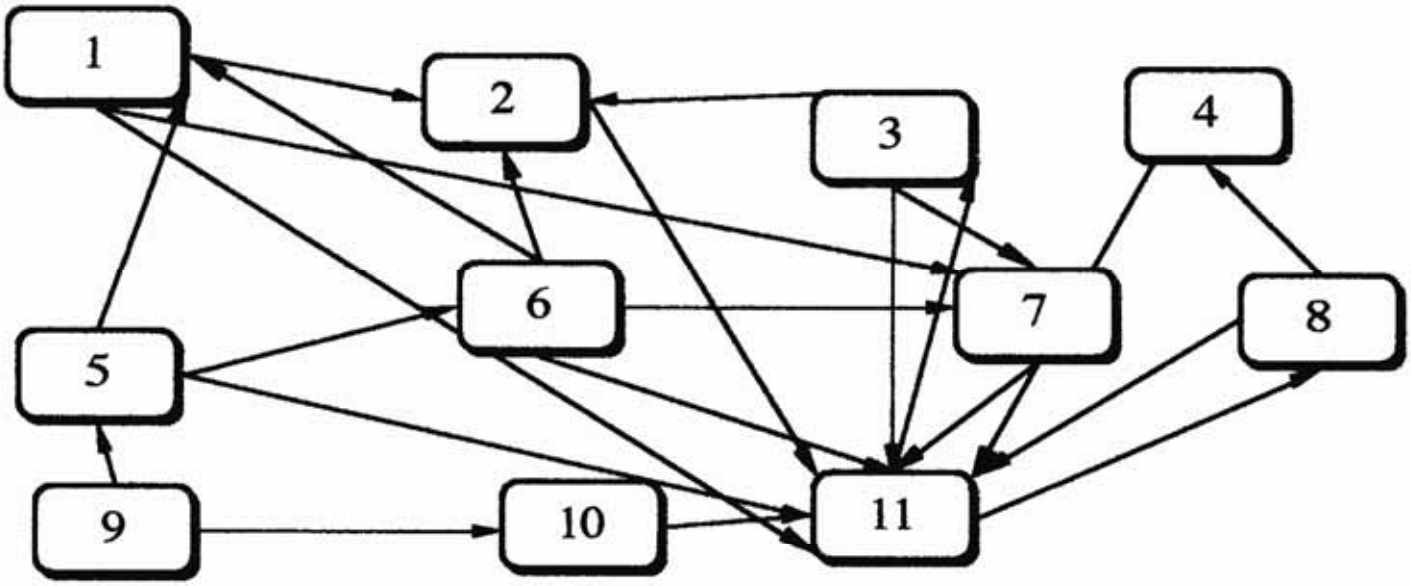
This is a diagram of a food web.

1. What number corresponds to the box or boxes where the producers would be found?
2. What is the highest order consumer?
3. What number box contains decomposers.
4. Which boxes would contain carnivores?



5. Use the information on the next page, Coral Reef Food Web, to place an organism in each box. To get you started, box 1 should contain small fish

A Coral Reef Food Web

The table below lists some of the feeding relationships in a coral-reef habitat. In the space below the table, draw the food web described in the table. (You may write the names of the organisms instead of drawing pictures of them.)

CORAL-REEF HABITAT

Coral-Reef Organisms	Eat . . .	Are eaten by . . .
Algae	make their own food	animal plankton, sea urchins
Animal plankton	algae	shrimp, small fish
Sea urchins	algae	
Small fish	animal plankton, shrimp	octopus, squid
Shrimp	animal plankton	small fish, octopus, squid
Octopus	small fish, crabs, shrimp	
Squid	crabs, shrimp, small fish	
Crabs	scraps of dead organisms	octopus, squid
Clams	scraps of dead organisms	sea stars
Sea stars	clams	

CORAL-REEF FOOD WEB

Answers:

1. 9 (key is it is only box where energy flows out)
2. 4th (longest food chain is 9 --> 5 --> 6 --> 1 --> 2)
3. 11 (All arrows point to 11 which would indicate that this is where things decompose. Organisms 3 and 8 eat decomposers according to this food web and then in turn, are decomposed.)
4. 1, 2, 6, 7, 4 and depending on whether you consider scavengers to be carnivores, 3 and 8
5. 1 -- small fish, 2 -- octopus, 3 -- crabs, 4 -- sea stars, 5 -- animal plankton
   6 -- shrimp 7 -- squid 8 -- clams 9 --algae 10 --sea urchins
   11 -- dead organisms

you probably could draw the food web with all the arrows going to #11 going to both 3 and 8 instead. I like including 11 separately because usually arrows suggest that consumers eat food directly, like predators. Sure, at some level many consumers eat dead organisms.