



Australian Government
Great Barrier Reef
Marine Park Authority

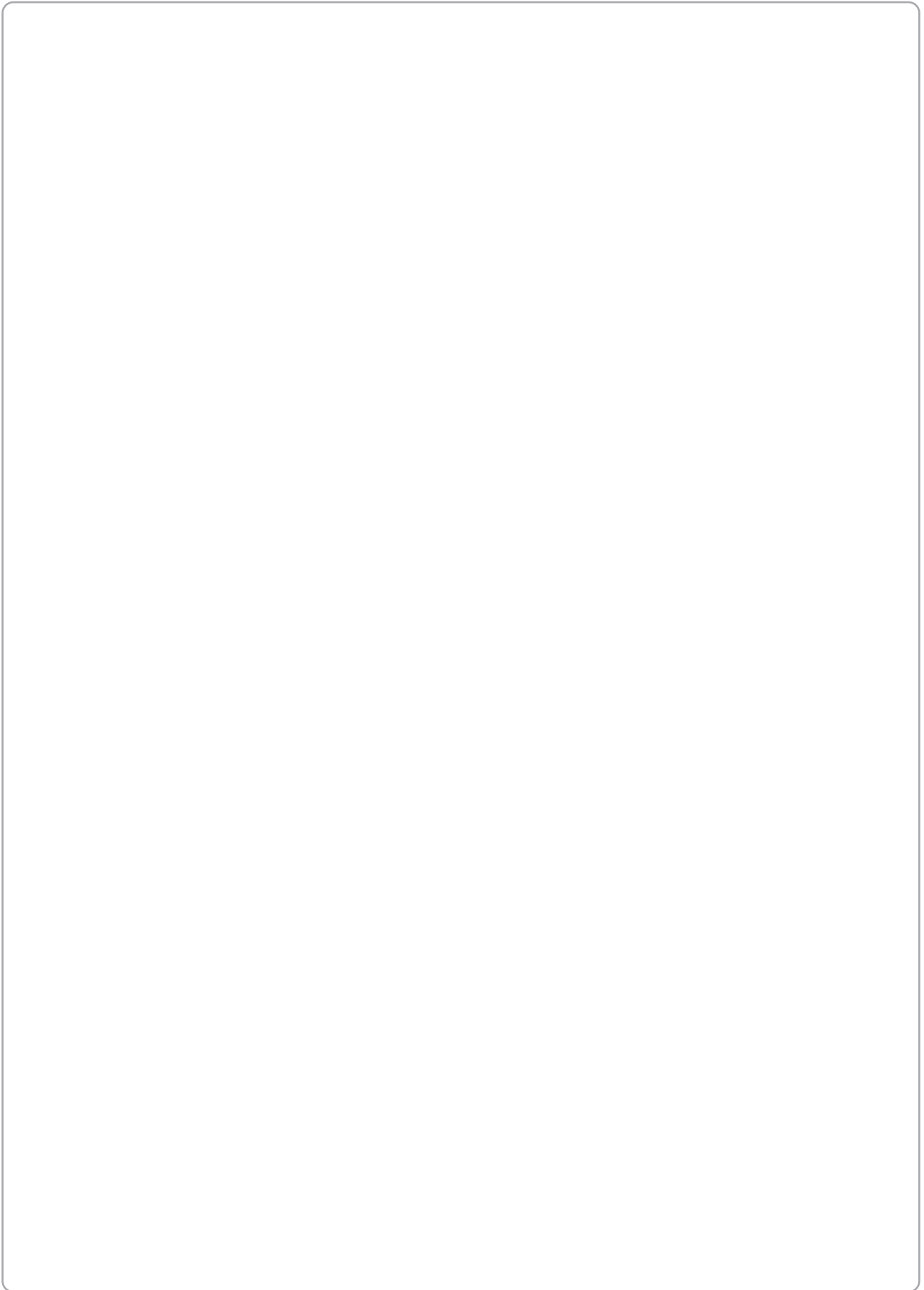
Be a Marine Biologist for a Day

Activity Booklet
Year 5



NAME:

How can I help the Great Barrier Reef?



What is citizen science?



Sea cucumber

Draw a sea cucumber in the box below.



How do they move?



Why do they have tough skin?



How do they breathe?



How do they eat? Do they have teeth?



Sea cucumber



© Commonwealth of Australia GBRMPA. Photographer: K.Goudkamp

Names

Tally

Total

Giant clam

>30cm

Draw a giant clam in the box below.



How many holes (siphons) does the mantle have?

How does the algae that lives in the mantle help the clam?

How does the giant clam help the algae in return?

Giant clam



© Commonwealth of Australia GBRMPA. Photographer: C. Jones

Names

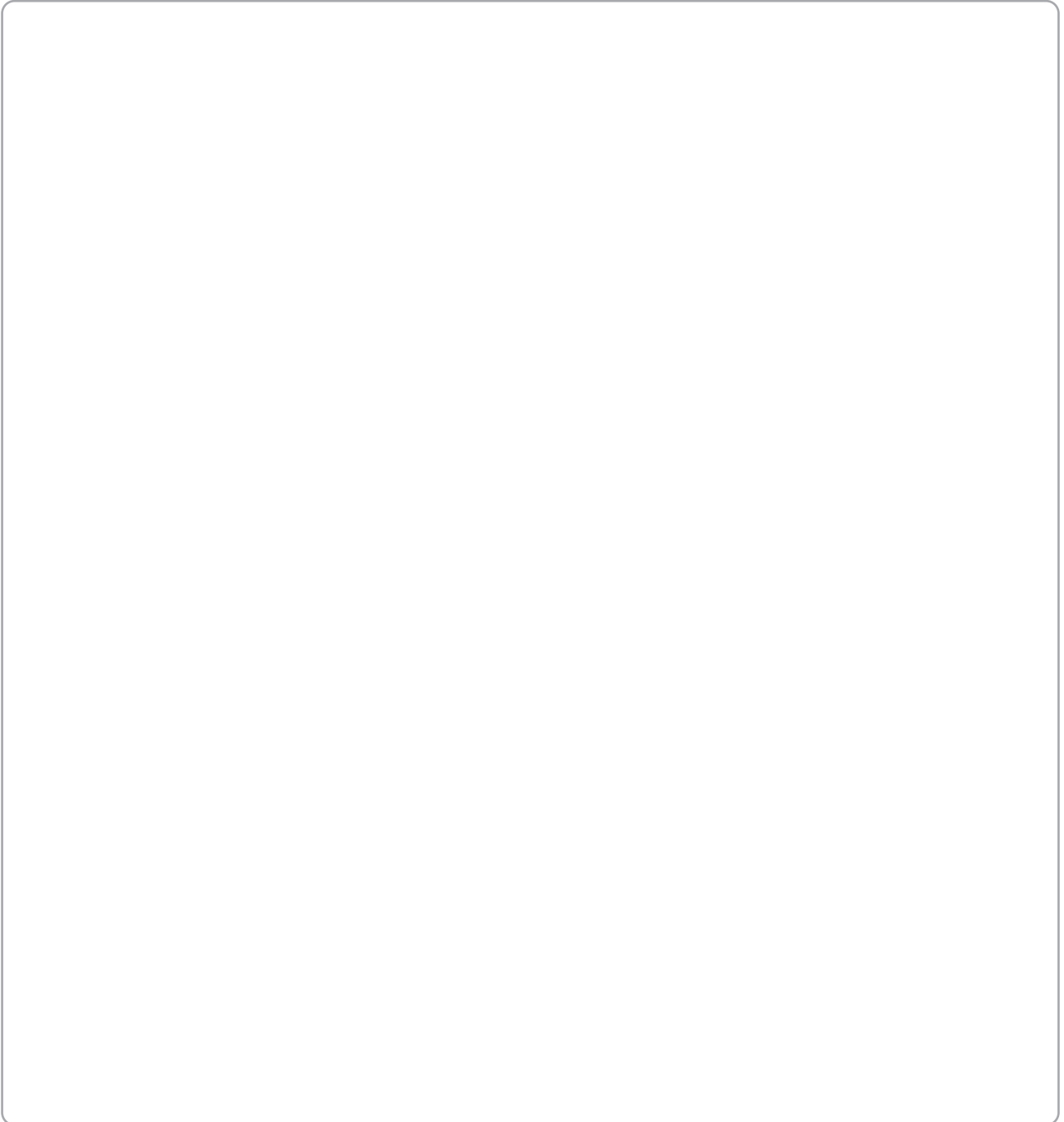
Tally

Only those bigger than 30cm

Total

Anemonefish

Draw an anemonefish in the box below.



What is a behavioural adaptation that stops the anemonefish being stung by their anemone?



Anemonefish



© Commonwealth of Australia GBRMPA. Photographer: J. Sumerling

Names

Tally

Total

Butterflyfish

Draw a butterflyfish in the box below.



Why do butterflyfish have small compressed bodies?



Some butterflyfish have a fake eye spot. Why?



Butterflyfish



© Commonwealth of Australia GBRMPA. Photographer: J. Jones

Names

Tally

Total

Grazing herbivores

Parrotfish / Surgeonfish / Unicornfish / Rabbitfish

Draw a grazing herbivore in the box below.



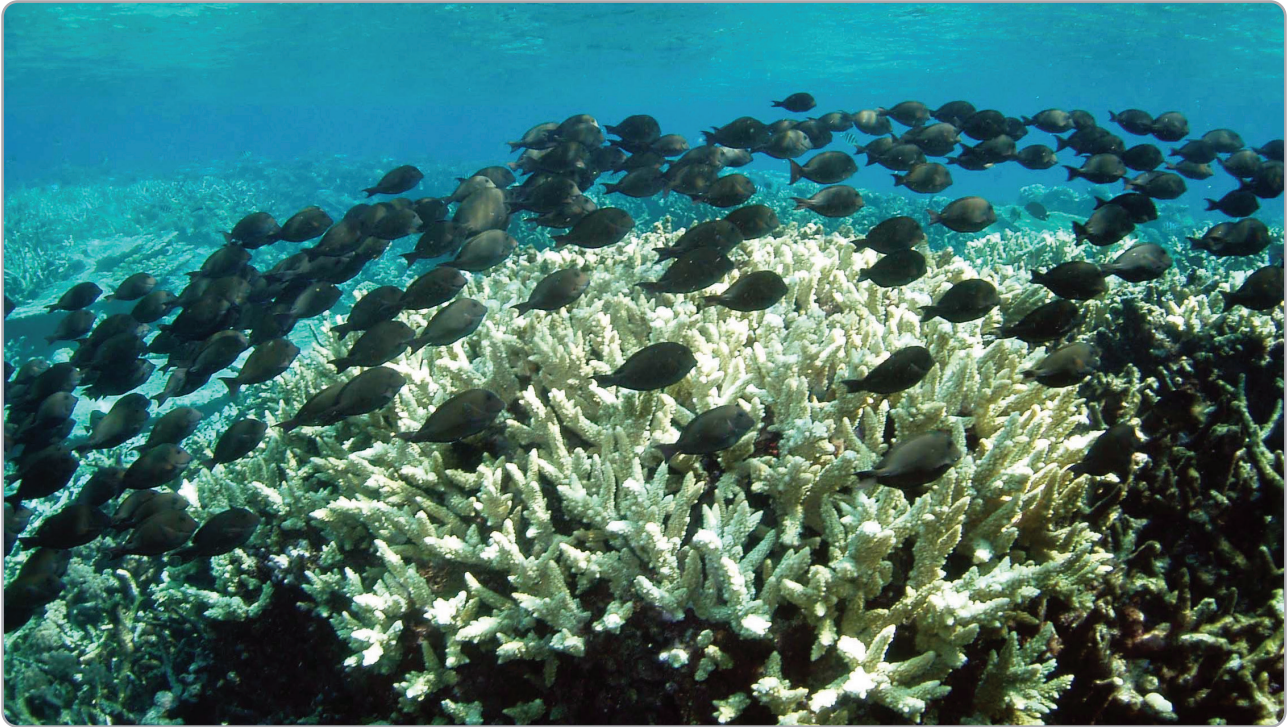
Why are they called the lawnmowers of the Reef?



How is the digestive system of a herbivore (e.g. teeth, mouth size, length of intestine) different to a carnivore?



Grazing herbivores



© Commonwealth of Australia GBRMPA. Photographer: C. Jones

Names

Tally

Total

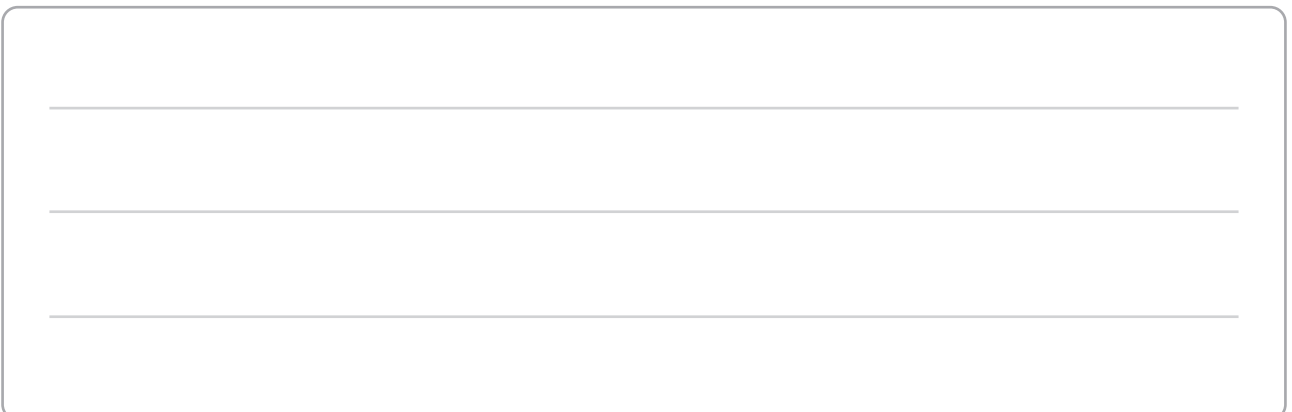
Cods and groupers

>50cm

Draw a cod or grouper in the box below.



What is a structural adaptation of a cod or grouper?



Cods and groupers



© Commonwealth of Australia GBRMPA. Photographer: P. McGinnity

Names

Tally

Only those bigger than 50cm

Total

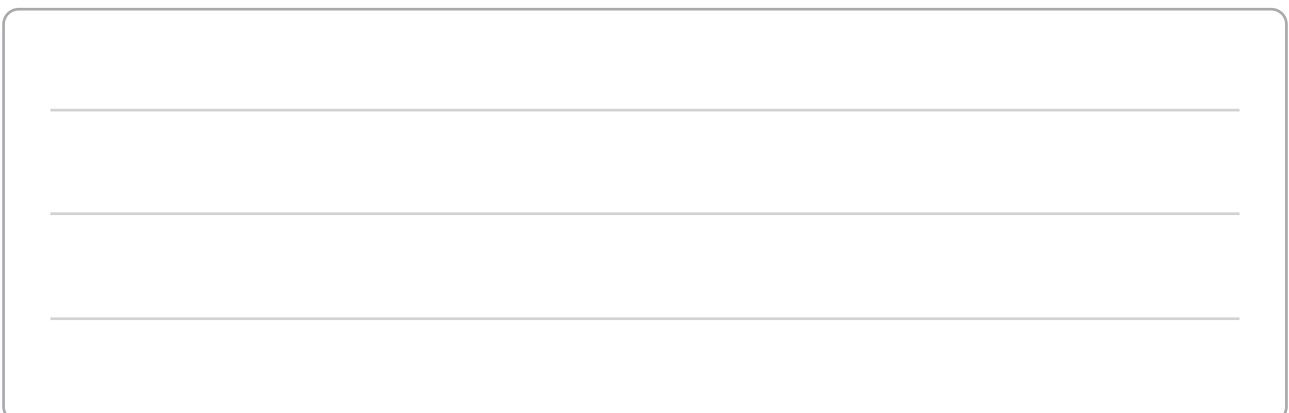
Coral trout

<38cm / >38cm

Draw a coral trout in the box below.



Why do coral trout change from female to male when approximately 42cm?



Coral trout



© Commonwealth of Australia GBRMPA. Photographer: G. Goby

Names

Tally

< 38cm

Tally

> 38cm

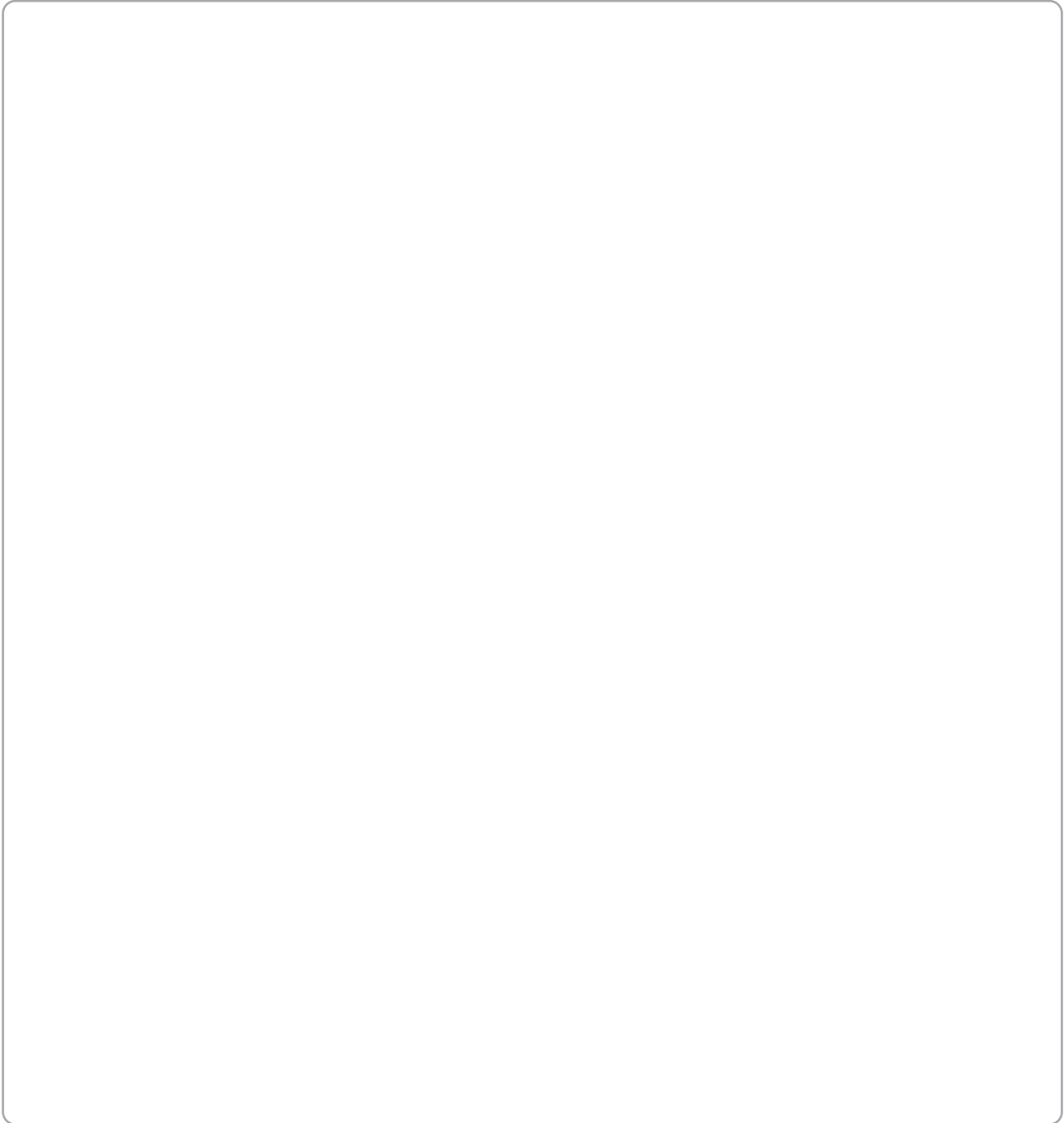
Total

Total

Maori wrasse

Male / Female

Draw a male Maori wrasse in the box below.



What structural adaptation does a male have, that a female doesn't?



Maori wrasse



© Commonwealth of Australia GBRMPA. Photographer: U. Engelhardt



© Commonwealth of Australia GBRMPA. Photographer: C. Jones

Names

Tally

Female

Tally

Male

Total

Total

Sea turtles

Green / Hawksbill / other

Draw a sea turtle in the box below.



What do sea turtles eat that look like jellyfish?



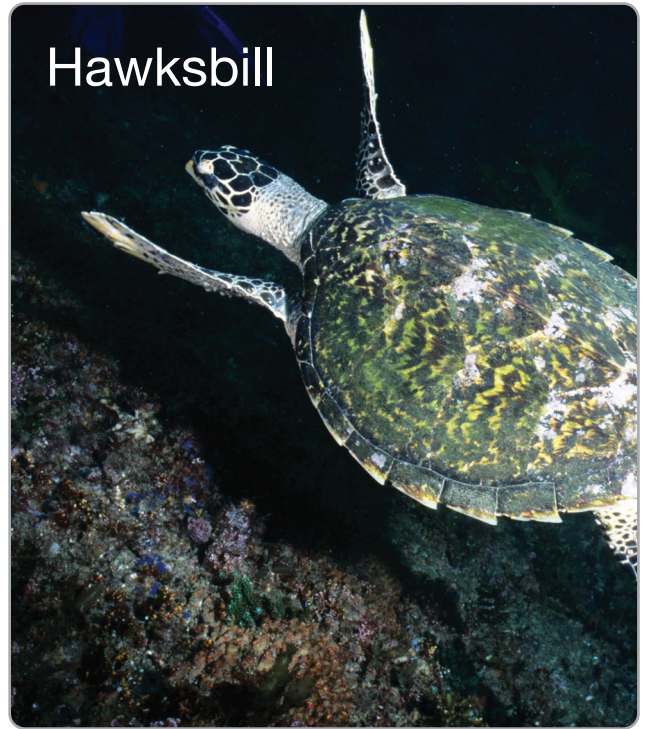
How many sea turtles are threatened with extinction?



Sea turtles



© Commonwealth of Australia GBRMPA. Photographer: K. Hoppen



© Commonwealth of Australia GBRMPA. Photographer: K. Hoppen

Names

Tally

Green

Tally

Hawksbill

Tally

Other

Total

Total

Total

Sharks

Whitetip / Blacktip / other

Draw a shark in the box below.



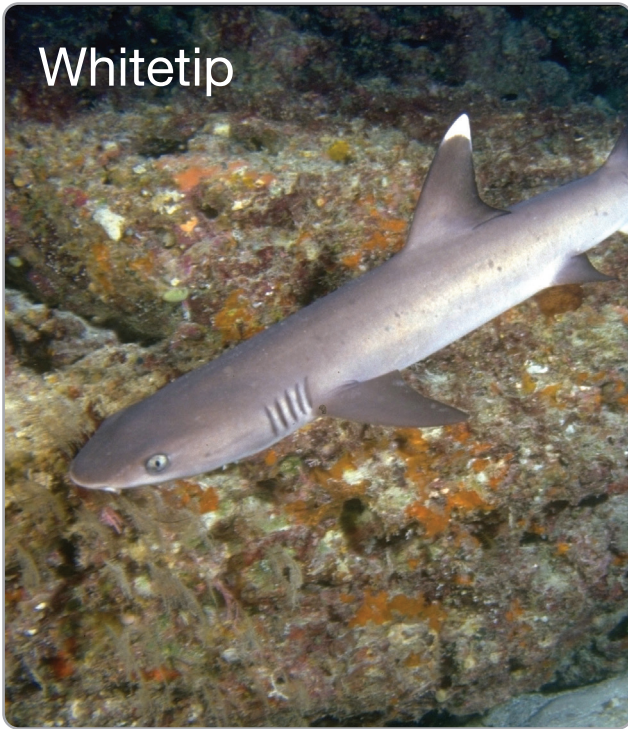
What can sharks sense, that we can't?



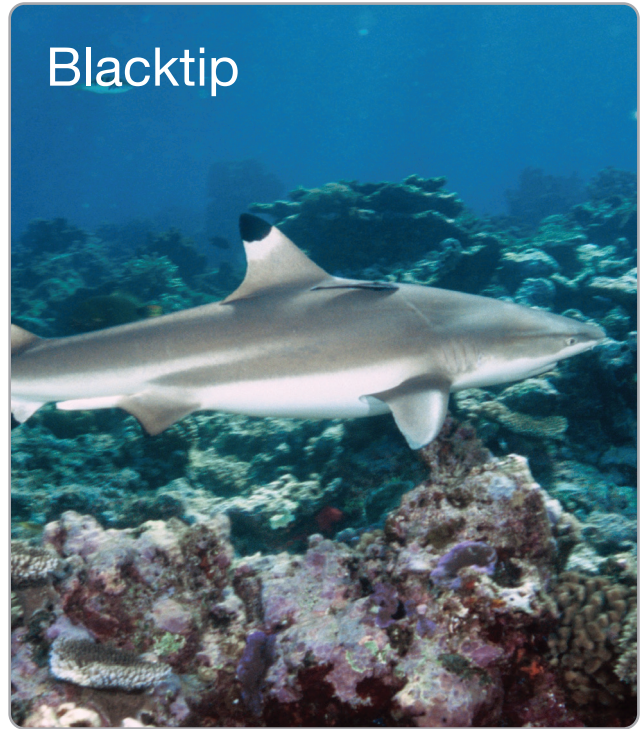
Why count sharks?



Sharks



© Commonwealth of Australia GBRMPA. Photographer: T. Mayne



© Commonwealth of Australia GBRMPA. Photographer: K. Hoppen

Names

Tally

Whitetip

Tally

Blacktip

Tally












Other

Total

Total

Total

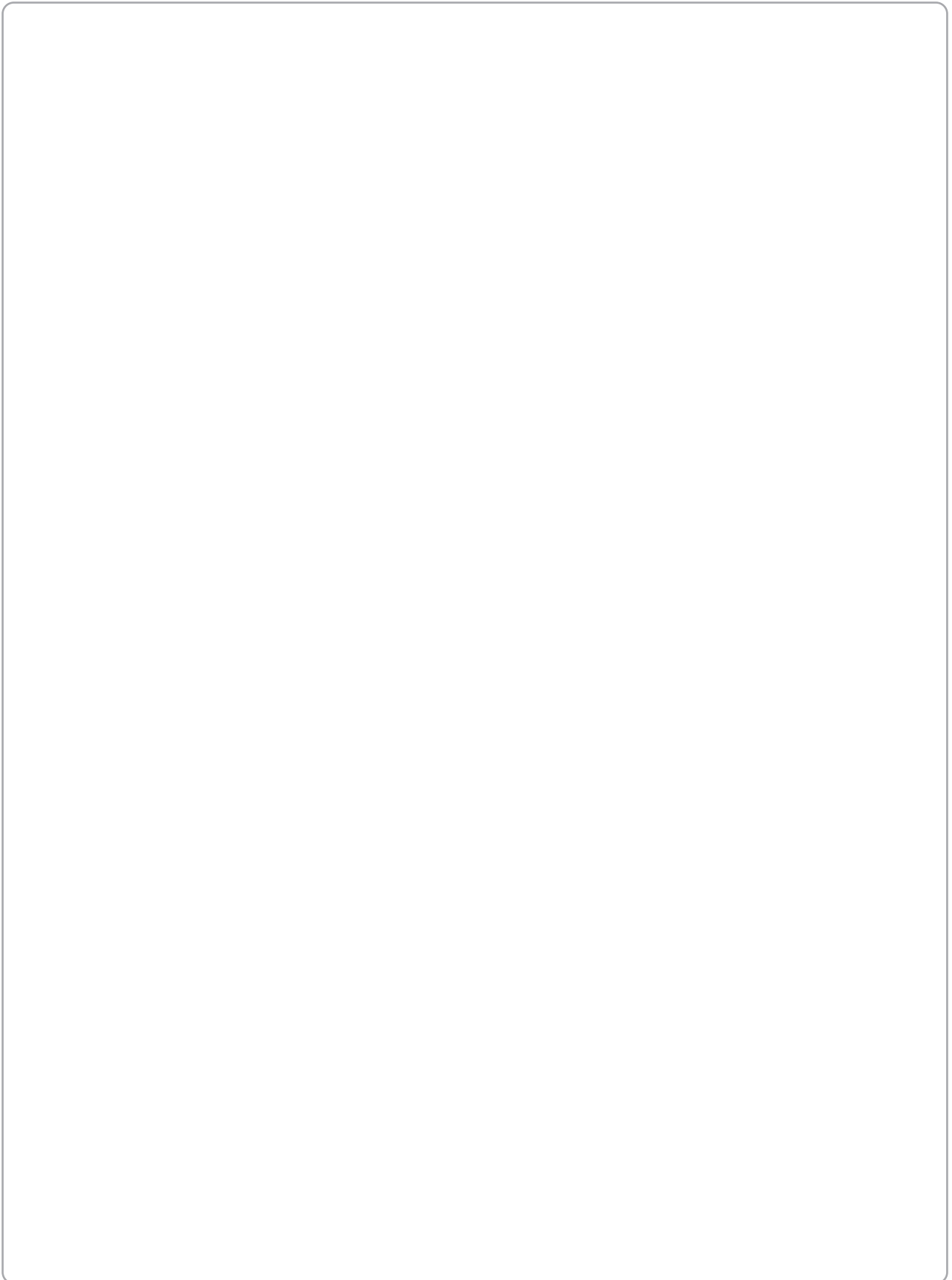
Complete this table with your Reef Guide after counting the animals on the reef.

Timed swim (10 minutes)			See over page for survey methodology			
ANIMALS	TALLY	TOTAL	ANIMALS	SIZE	TALLY	TOTAL
Sea cucumber (all species) 			Coral trout (all species) 	<38cm >38cm		
Giant clam (larger than size of hand) 			Maori wrasse 	SEX Male Female		
Anemonefish (all species) 			Turtle (all species) 	TYPE Green Turtle* Hawksbill Turtle* Other (please name)		
Butterflyfish (all species) 			Shark (all species) 	Whitetip reef shark Blacktip reef shark Other (please name)		
Grazing herbivores See definition over page 			Crown-of-thorns starfish 	Juvenile Adult		
Cods and groupers (over 50cm in length) 						

Complete back at school after your excursion.

***How did I help the
Great Barrier Reef?***

Below, draw a picture or write about your day on the Reef!

A large, empty rectangular box with rounded corners, intended for a student to draw a picture or write about their day on the reef. The box is completely blank and occupies most of the page's vertical space.