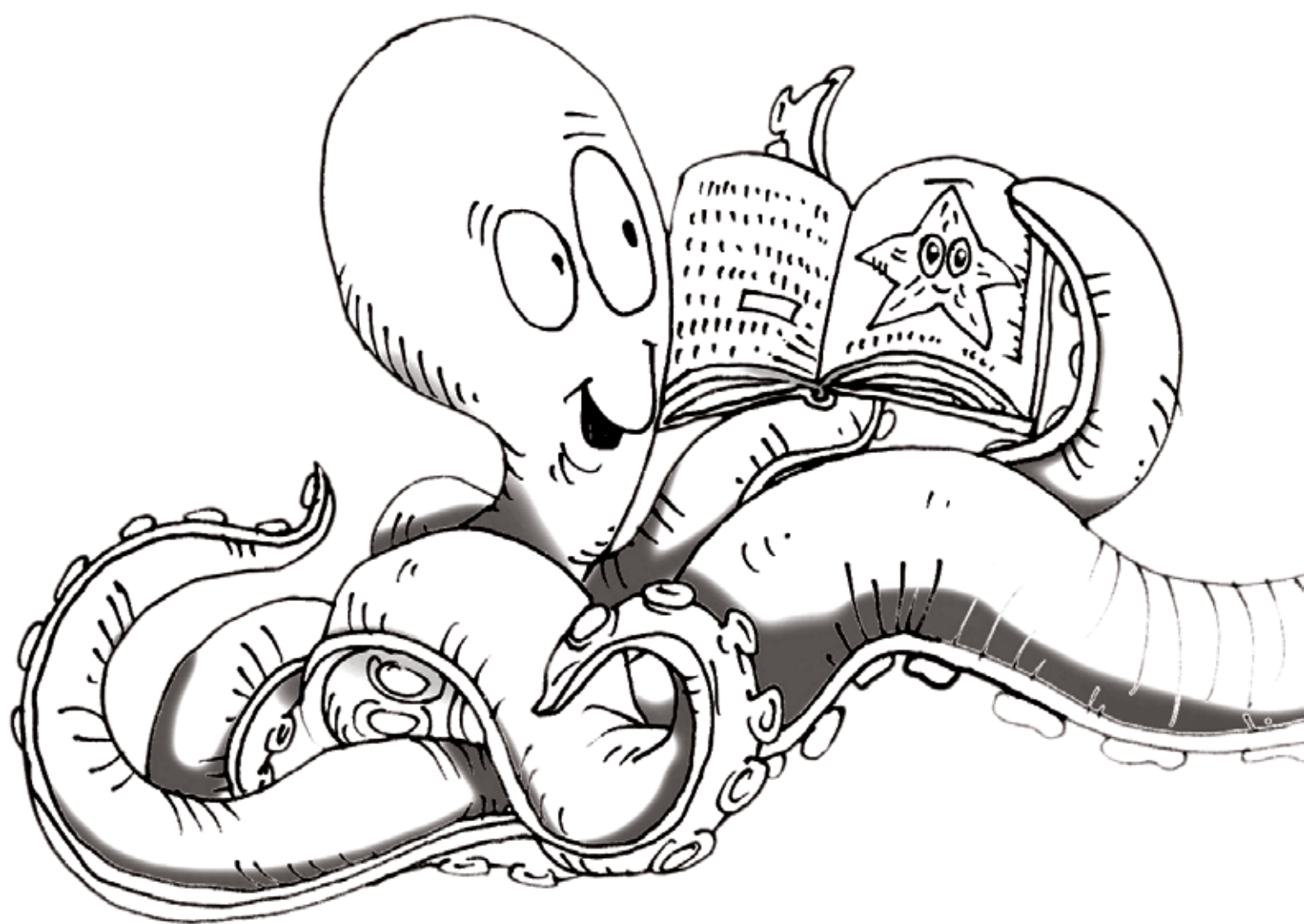


# EXPLORING OUR OCEAN COLOURING & ACTIVITY BOOK



By Cushla Dromgool-Regan and Dr Noirin Burke  
Illustrations by Dr John Joyce





# EXPLORING OUR OCEAN COLOURING & ACTIVITY BOOK

THIS BOOK BELONGS TO

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Illustrations by Dr John Joyce

# The earth has one big ocean

Nearly three quarters of the Earth's surface is covered by one large ocean.

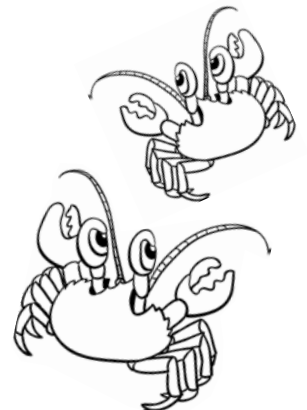
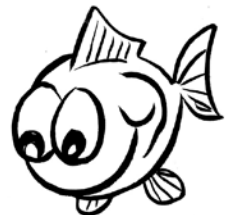
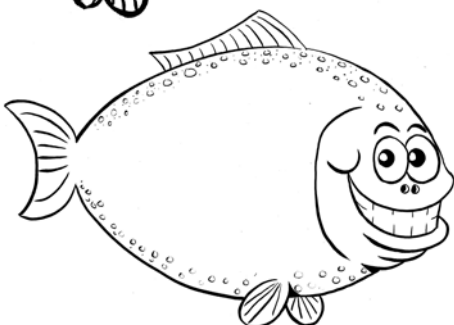
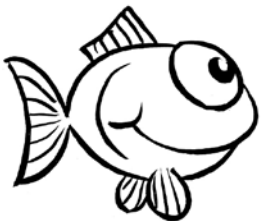
The Ocean is divided into five areas and each area is given a special name:

- Pacific • Atlantic • Indian • Southern • Arctic



Can you find the ocean names in the ocean word search?

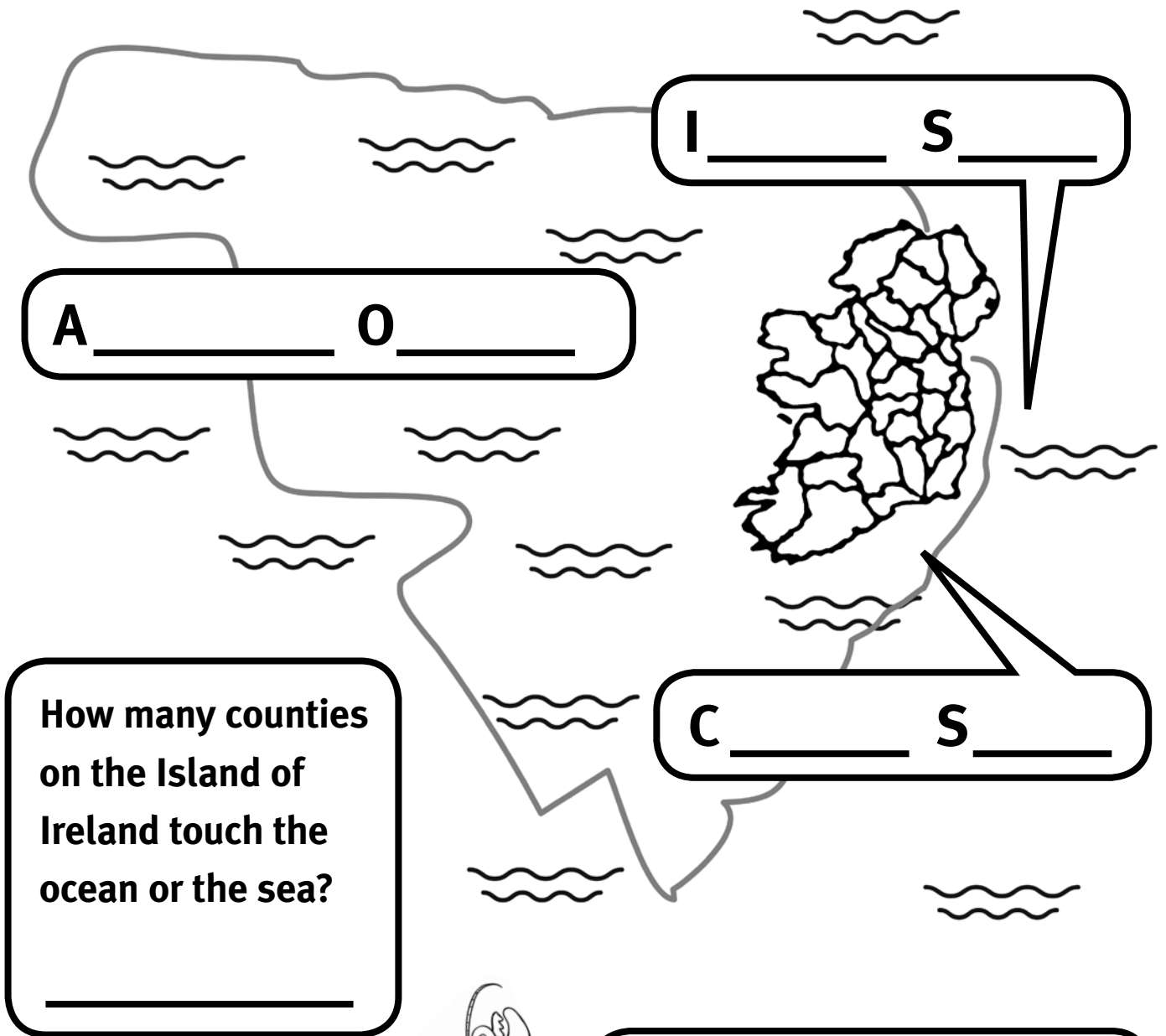
X	P	N	N	L	N	X	U	N	Y
H	A	I	N	D	I	A	N	C	F
O	C	R	N	W	G	U	O	E	Q
C	I	K	L	C	I	T	C	R	A
M	F	Q	J	C	D	G	C	W	L
L	I	S	J	J	E	Z	D	Z	S
O	C	M	E	K	R	V	L	V	U
C	W	C	I	T	N	A	L	T	A
O	N	H	W	U	C	P	Y	B	X
K	M	S	O	U	T	H	E	R	N



Did you know... that the **Atlantic Ocean** is the saltiest ocean in the world.

# The Real Map of Ireland

Ireland has lots and lots of land under the ocean.  
This area is ten times the size of the island of  
Ireland.



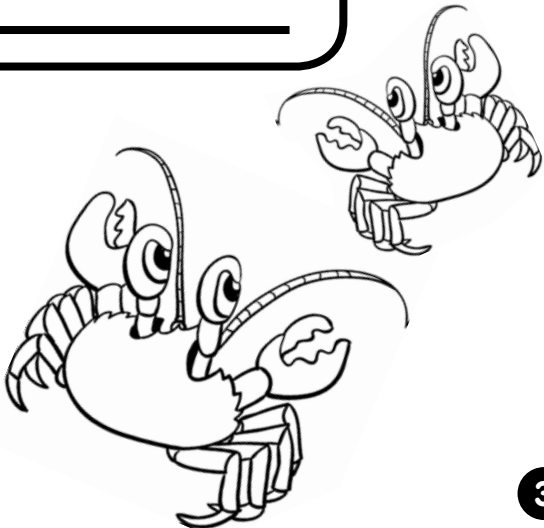
I \_\_\_\_\_ S \_\_\_\_\_

A \_\_\_\_\_ O \_\_\_\_\_

C \_\_\_\_\_ S \_\_\_\_\_

How many counties  
on the Island of  
Ireland touch the  
ocean or the sea?  
\_\_\_\_\_

Locate on the map the  
names of the ocean and  
seas that surround Ireland



# Research Vessels

Marine scientists work on research vessels to learn about the ocean and the land under the sea.

Did you know... marine scientists have named around 1.5 million different animals in the ocean and are discovering new animals everyday.



Can you unscramble the name of Ireland's research vessels?

eliCct rxploreE \_\_\_\_\_

Ceticl oVayger \_\_\_\_\_

# Under the Ocean

The Atlantic Ocean that surrounds Ireland is about four thousand metres deep. The deepest part of the world's ocean is found in the Pacific Ocean and is 11,034 metres deep.



A Remotely Operated Vehicle is like an underwater **robot**. It is used to take samples of animals and plants that live in the **deepest** parts of the ocean.

Arrange these numbers in order to make the smallest and the largest possible numbers:

3, 4, 0, 1, 1

**Smallest number**

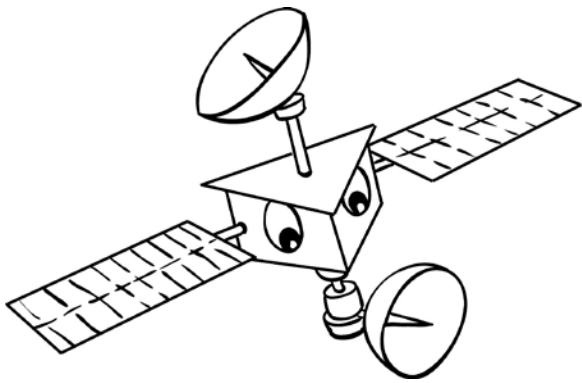
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**Largest number**

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# The Ocean and the Weather

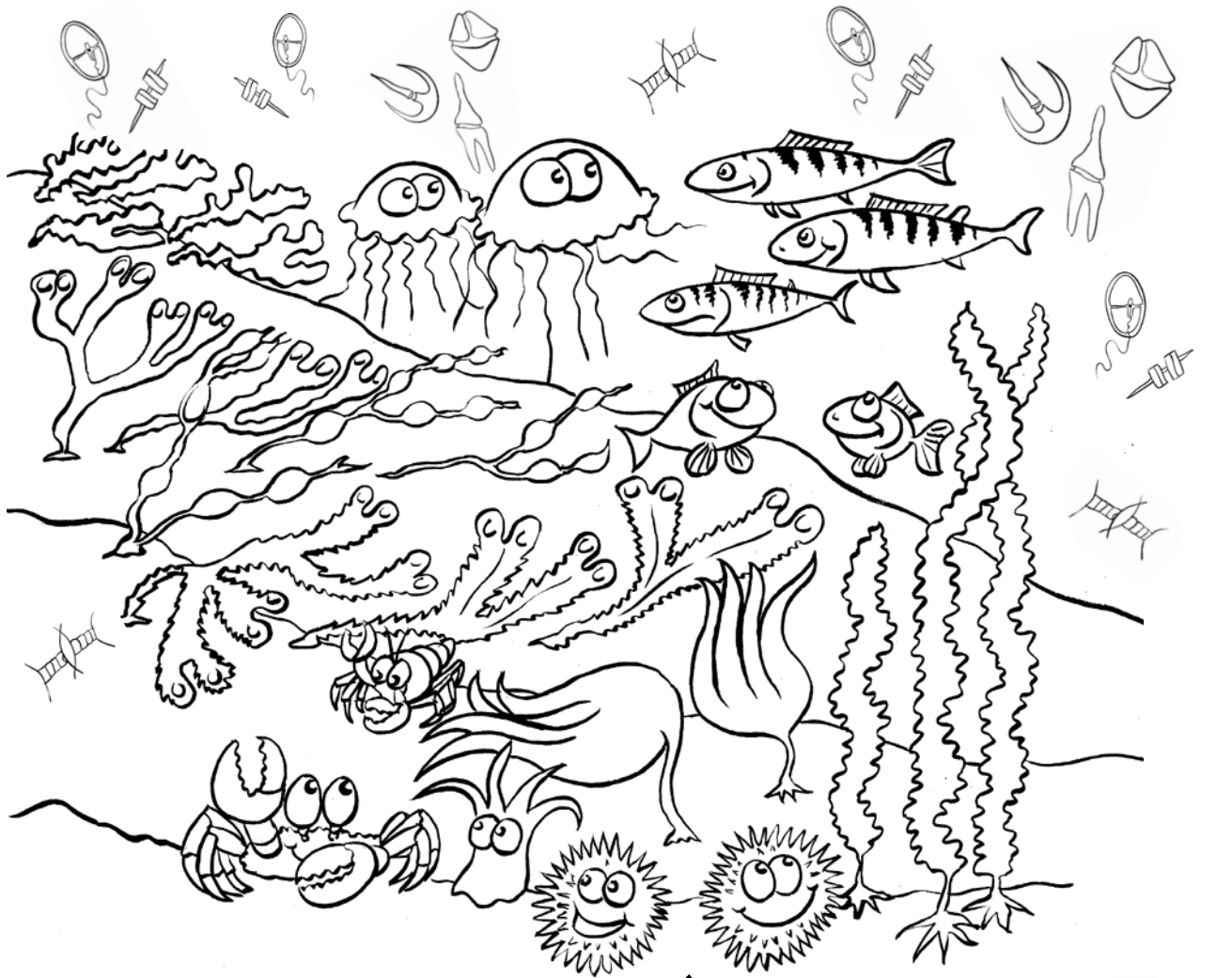
Marine Scientists and engineers use all sorts of technology, such as weather buoys, data buoys and satellites to help us learn about the ocean.



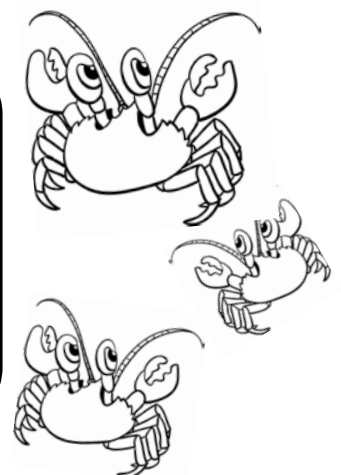
Did you know... the ocean affects our **climate** and **weather**.

# Ocean Life

There are more plants and animals living in the ocean than on land. These include the tiniest microscopic plants and animals called phytoplankton and zooplankton. The largest animals on earth also live in the ocean, such as the blue whale.

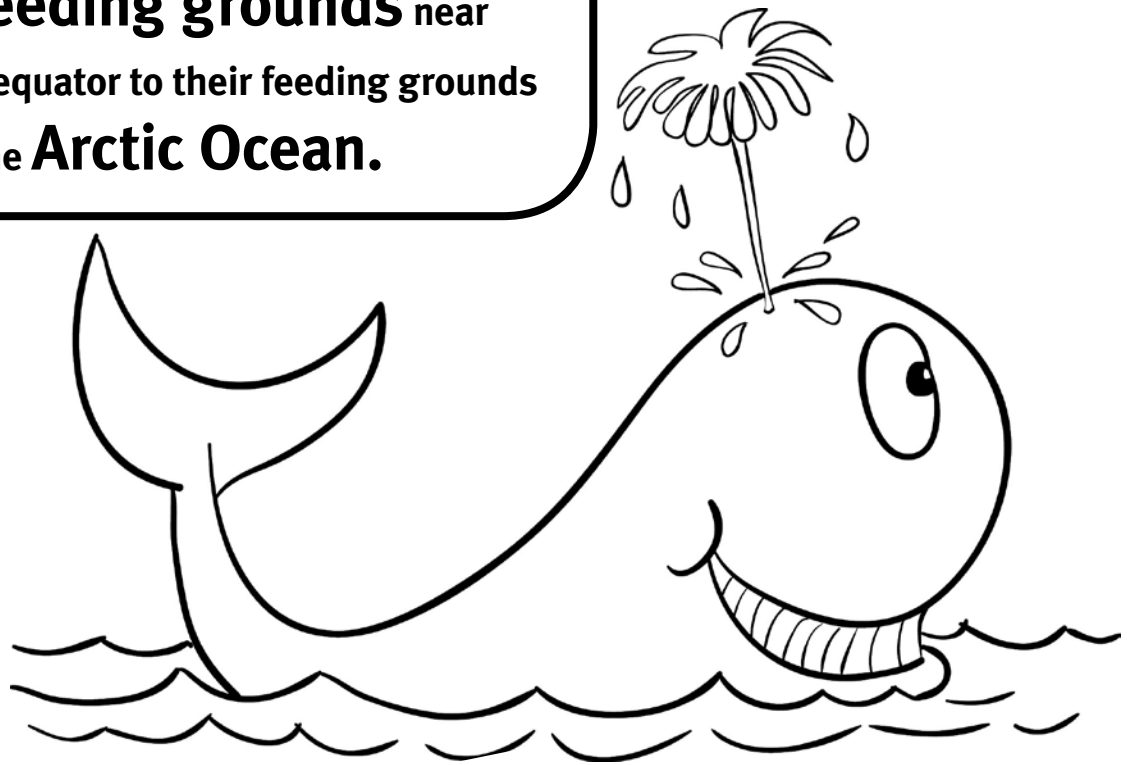


Did you know that... over **half** the **oxygen** we **breathe** is produced by tiny microscopic plants called **phytoplankton** that live in the Ocean.

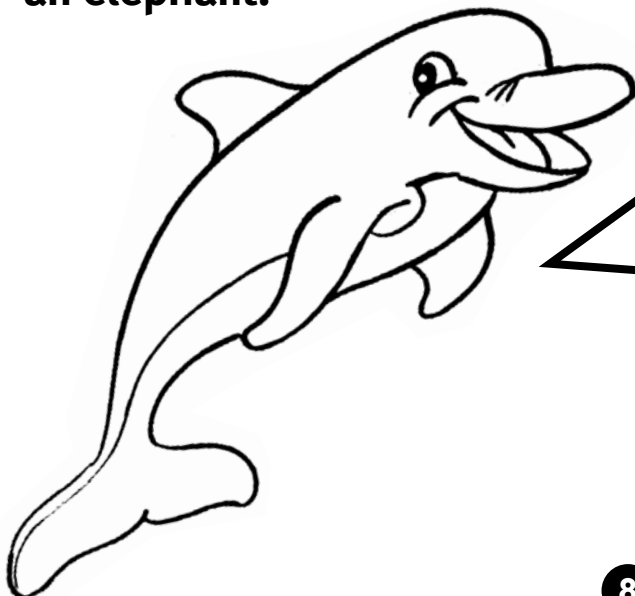


# Whales and Dolphins

Did you know... that **blue whales** pass through Irish waters. They travel from their **breeding grounds** near the equator to their feeding grounds in the **Arctic Ocean**.



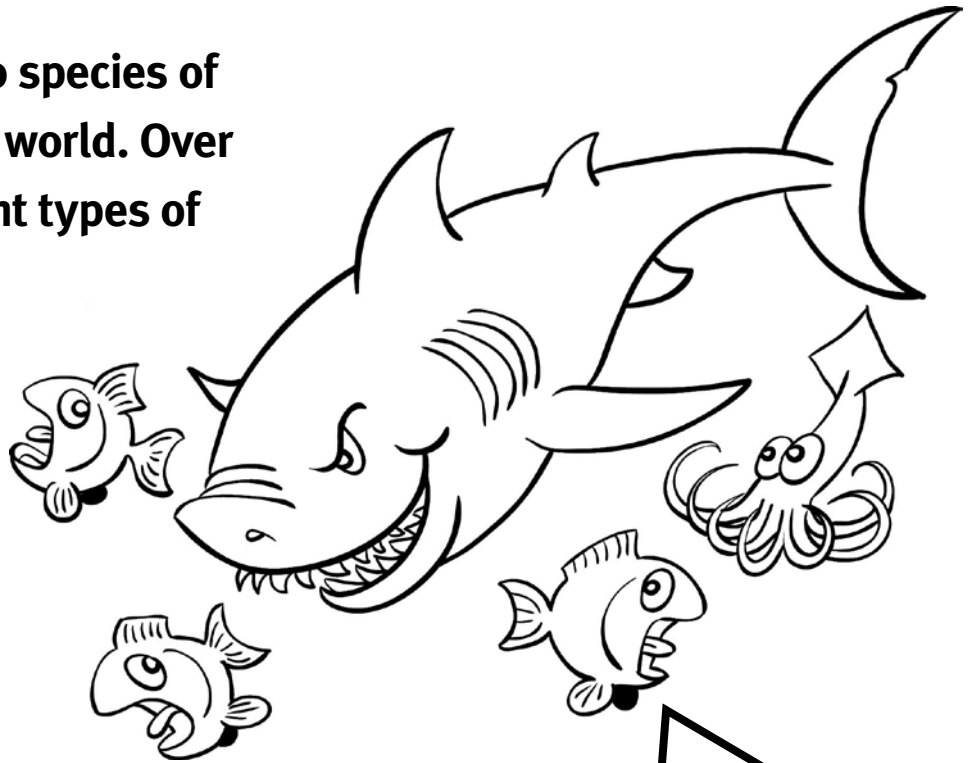
**Blue whales** are the largest animal on the planet. They have hearts the size of cars and their tongue can weigh more than an elephant.



Did you know... there are about **24 species of whales and dolphins** that live in Irish waters.

# Sharks

There are 500 species of sharks in the world. Over thirty different types of sharks live in Irish waters.



Did you know ... the **Lesser Spotted Dogfish** is Ireland's most common type of shark... The world's second largest shark is the **Basking Shark**. It lives in the seas around Ireland and feeds on plankton.

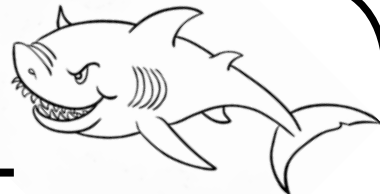
Can you unjumble the names of the sharks below?

dgofihs \_\_\_\_\_

eulb hsakr \_\_\_\_\_

ingbask arksh \_\_\_\_\_

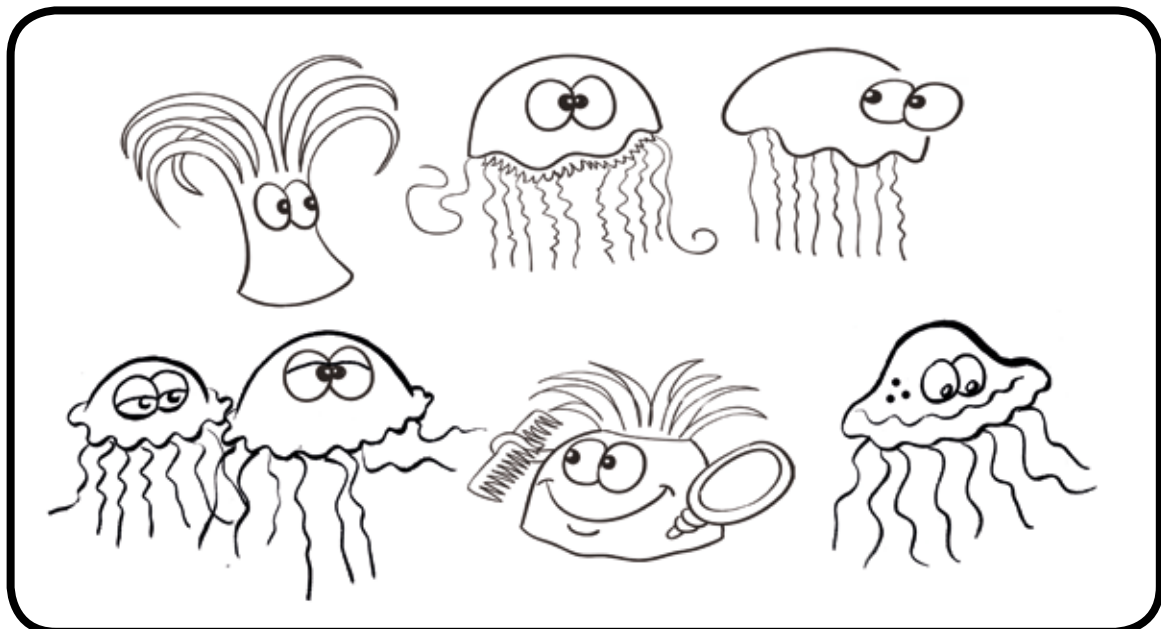
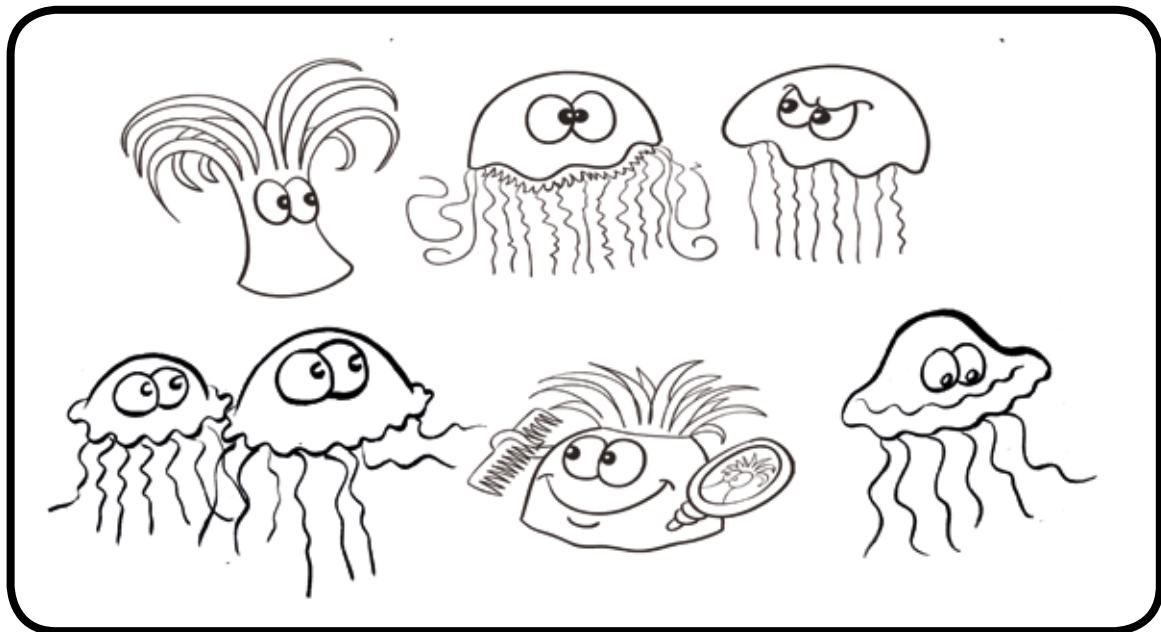
geart etihw krahs \_\_\_\_\_



# Jellyfish

The most dangerous animal in the ocean is the Box Jellyfish. Thankfully they are not found in Irish waters.

Can you spot the nine differences between the jellies below?



Did you know ... A group of **jellyfish** is called a 'smack'.

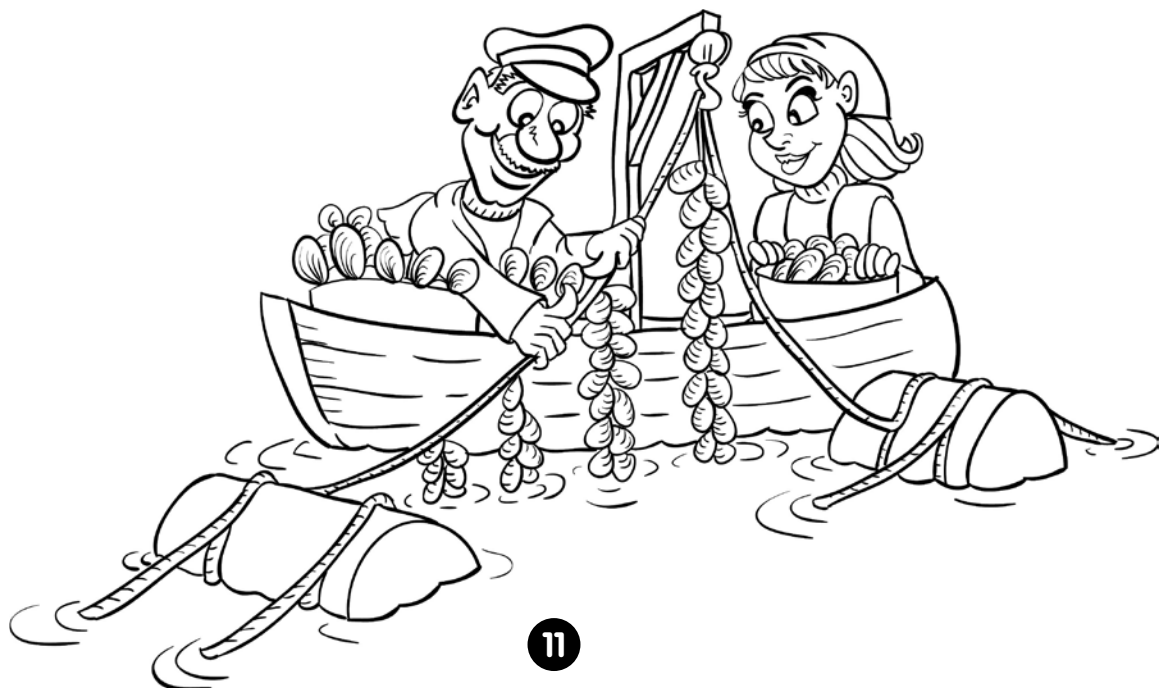
# Seafood

The ocean provides lots of different types of food that we like to eat including fish, shellfish and even seaweed.



Can you name a type of seafood that you like to eat?

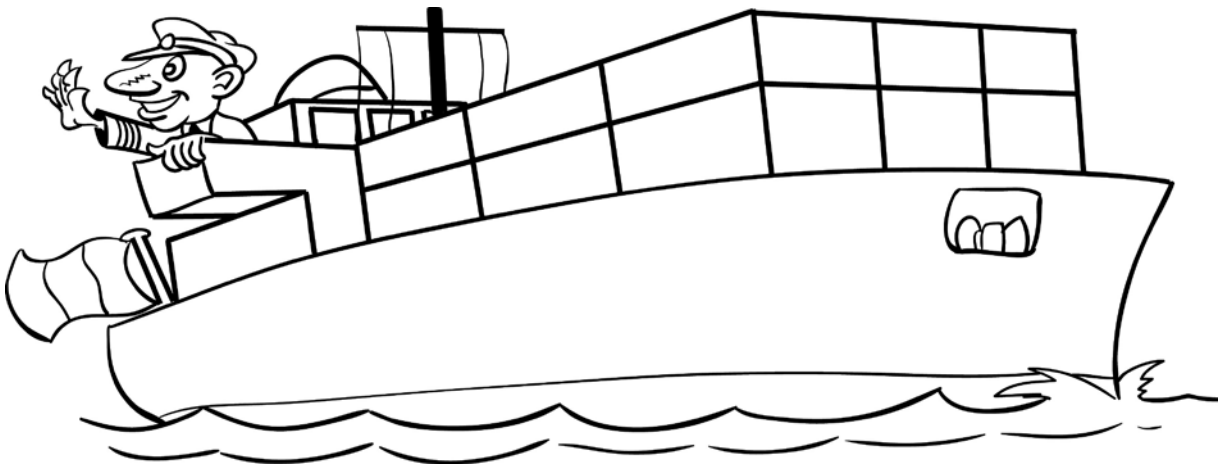
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# **Ships**

Different types of ships are used for carrying people and goods across the sea. Can you fill in the missing letters and name the different types of ships?

**C \_ \_ rgo** ships carry containers across the sea.



**N \_ \_ v \_ \_ l** ships are used by the navy.

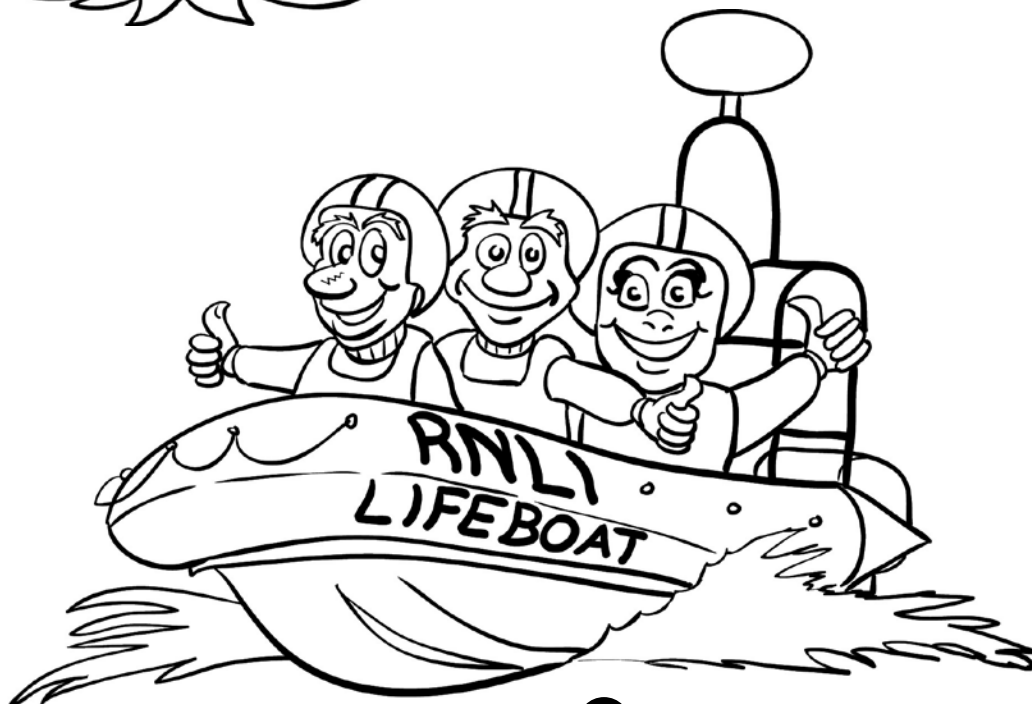


# Boats

People use **S**\_\_ \_\_ **l**ing  
boats for fun. Some  
sailors race their boats  
around the world.



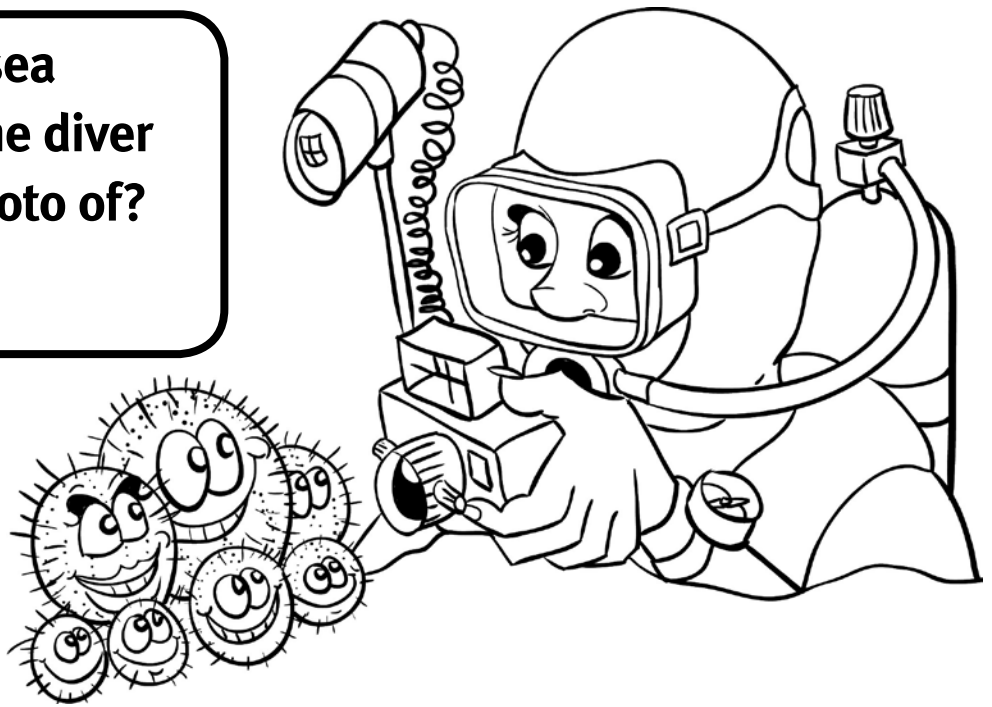
**L**\_\_ \_\_ **e** boats are  
used by people to  
help people at sea.



# Fun times in the Ocean

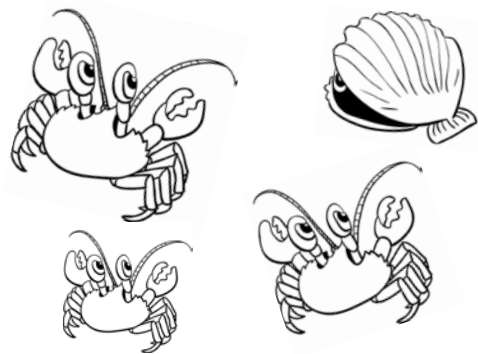
Many of us like to go to the beach or spend time in the water swimming, diving and even surfing.

How many sea urchins is the diver taking a photo of?  
\_\_\_\_\_

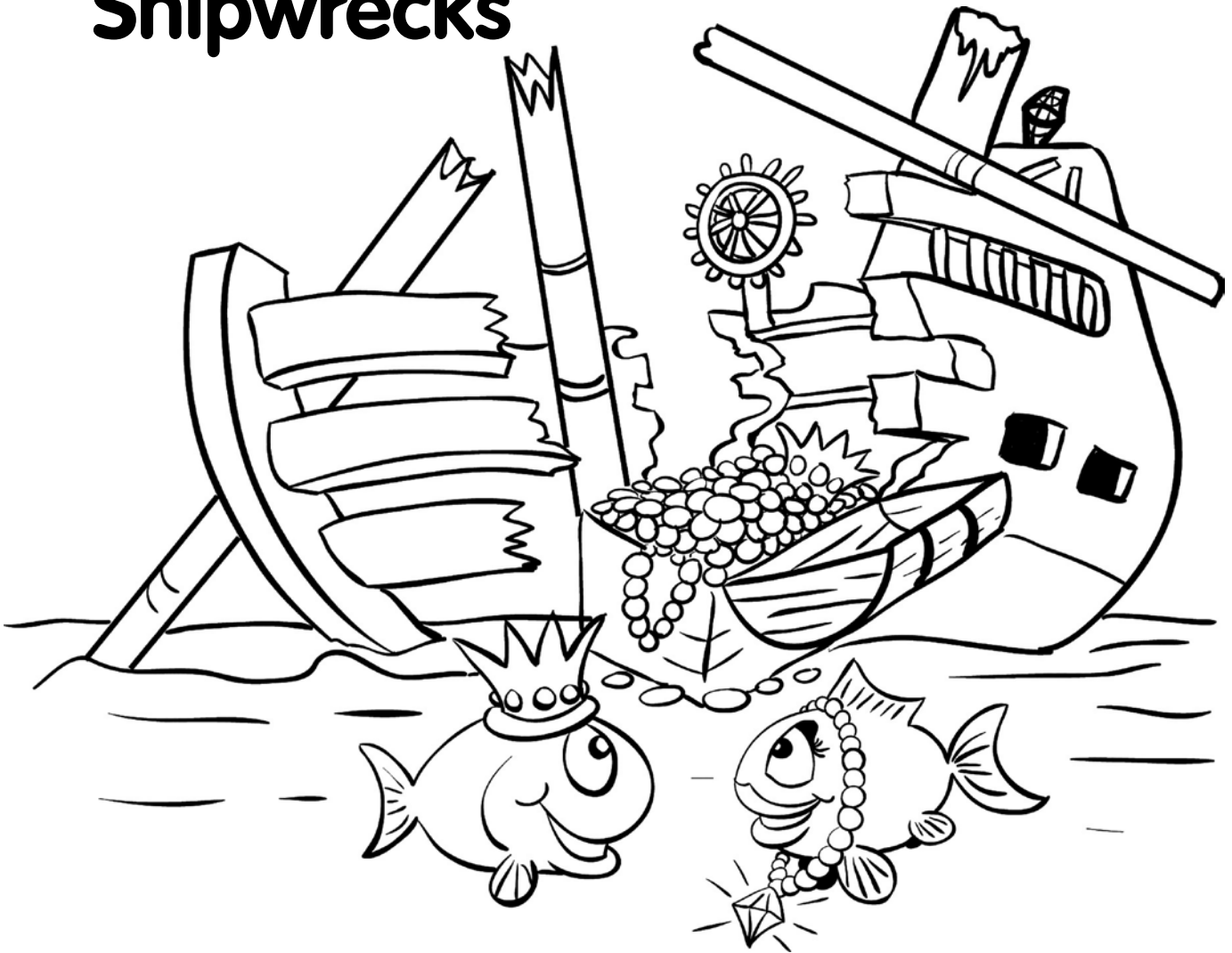


How many crabs are surfing with the surfer? \_\_\_\_\_

If you multiply the total number of sea urchins by the total number of crabs, how many sea animals do you have? \_\_\_\_\_



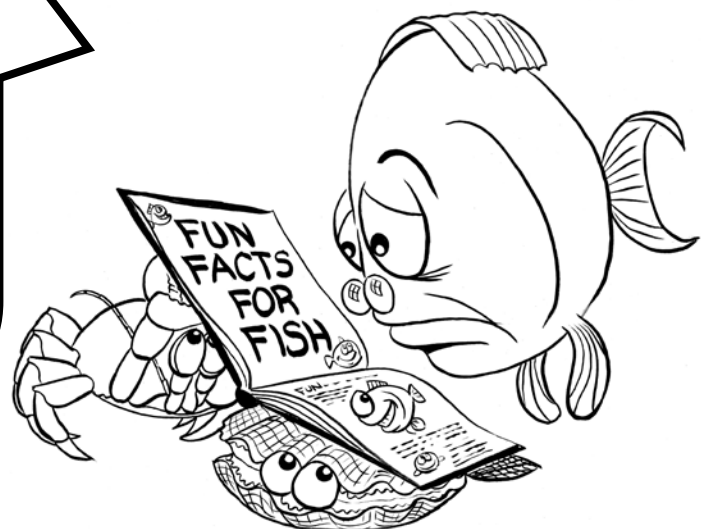
# Shipwrecks



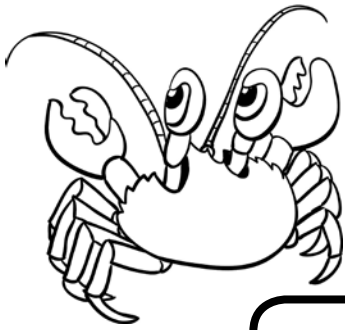
There are over 15,000 shipwrecks at the bottom of the Irish ocean. Many of them are hundreds of years old.

Did you know... the **orange roughy fish** found in the deepest parts of the ocean can live up to **150 years of age**.

If any light is shone on an orange roughy under the water, its colour appears **black**.



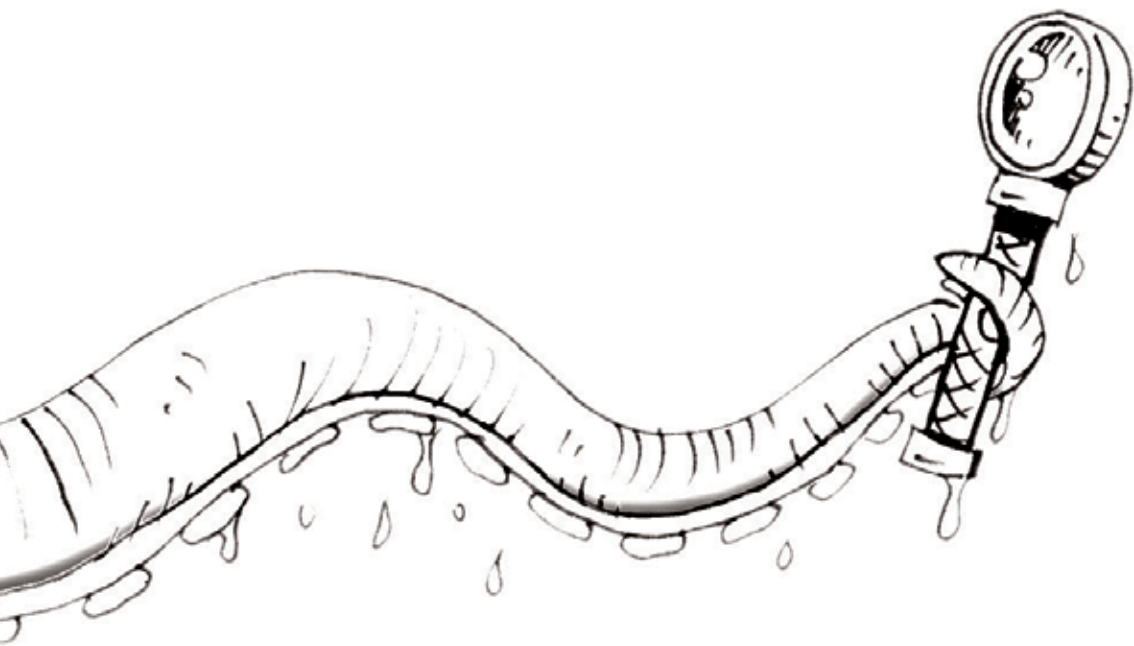
# What I love about the Ocean

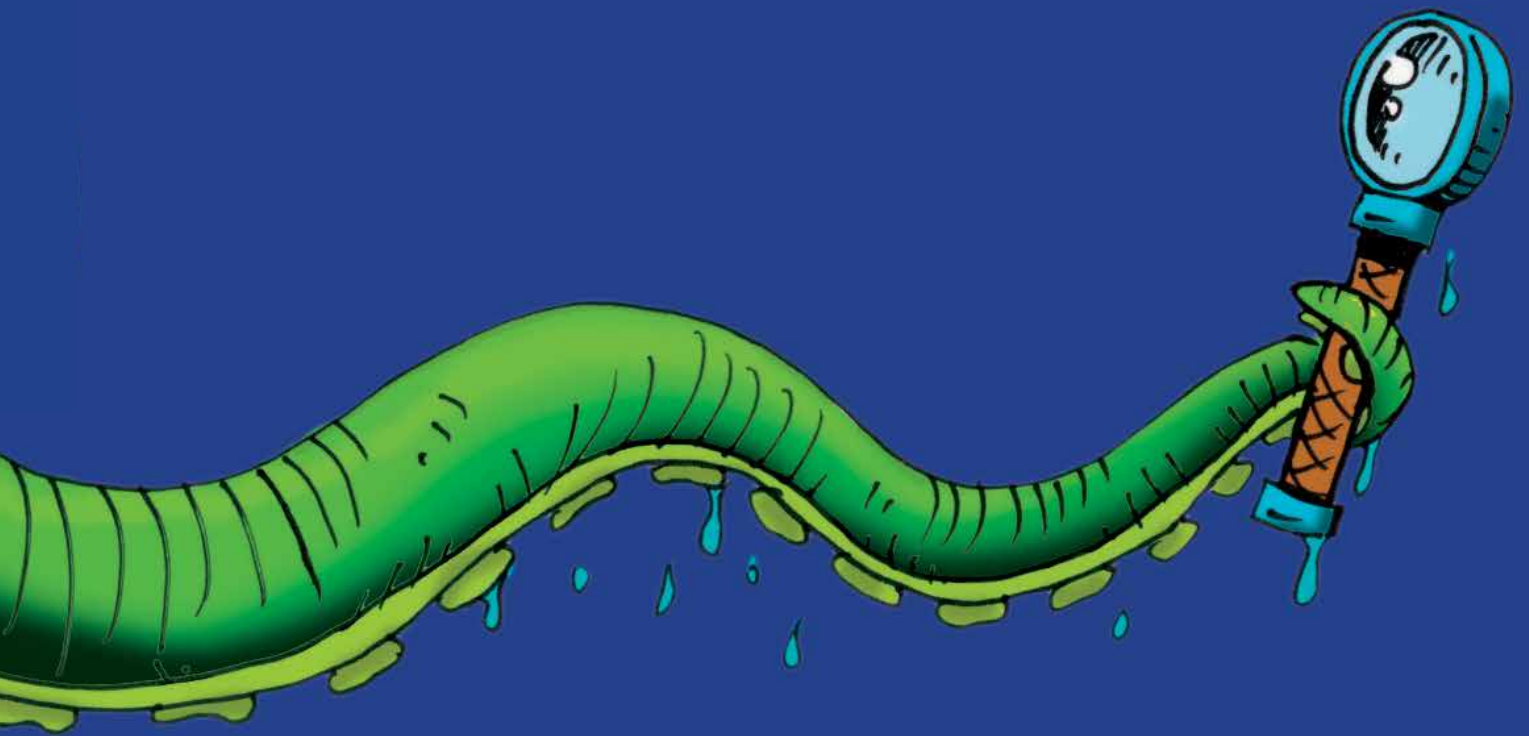


Draw a picture of what you love about the ocean...

THIS PICTURE IS BY

\_\_\_\_\_





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