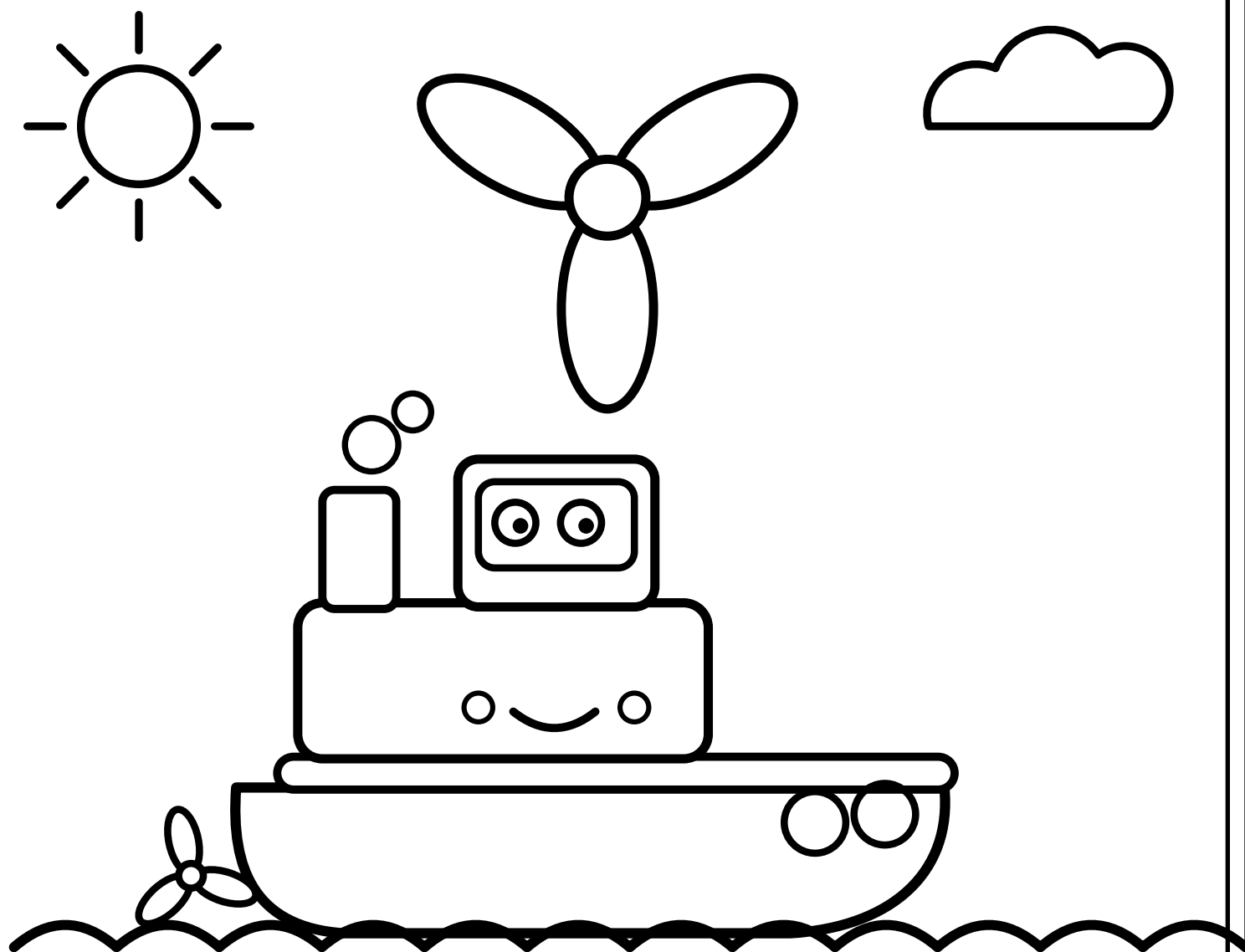


PROPELLER PALS™

Coloring & Activity Book

Lessons • Games • Fun Facts



Ages 4–8

propellerpals.com

Ahoy, Friend!

Welcome to Propeller Town

This book belongs to:

Meet the Propeller Pals!



Tuggy Tug, the harbor tugboat — small but mighty!



Heli, the Coast Guard helicopter — always ready to help.



Connie, the containership — she sails the whole world.



Fannie, the fan boat — she glides through the marsh.

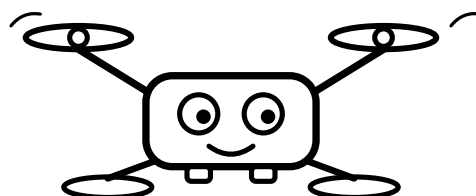


Drifty, the curious drone — four propellers and big ideas.



Pete, the giant transport plane — big loads, big heart.

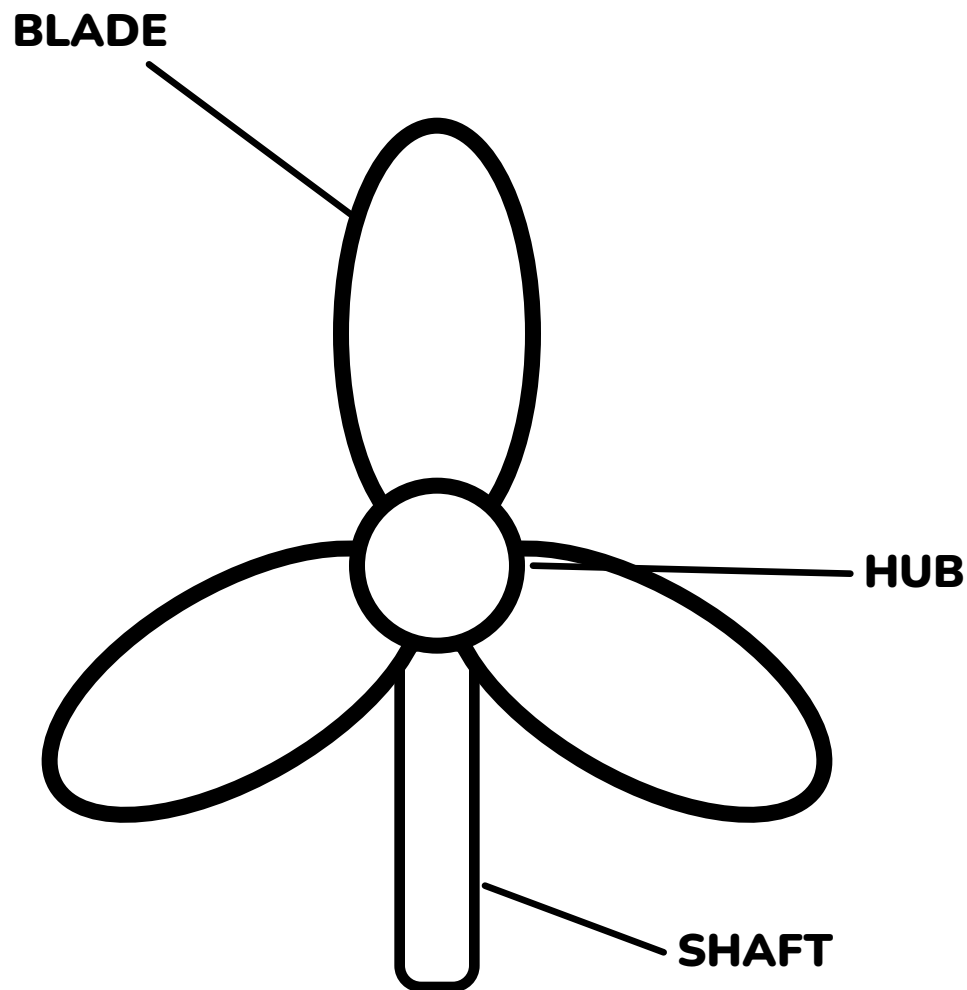
Every pal has a propeller — spinning blades that push water or air to make things GO. Let's learn how!



What Is a Propeller?

A little lesson before we color

Color the propeller! Then point to each part and say its name.



A propeller has **BLADES** that spin around a **HUB**.

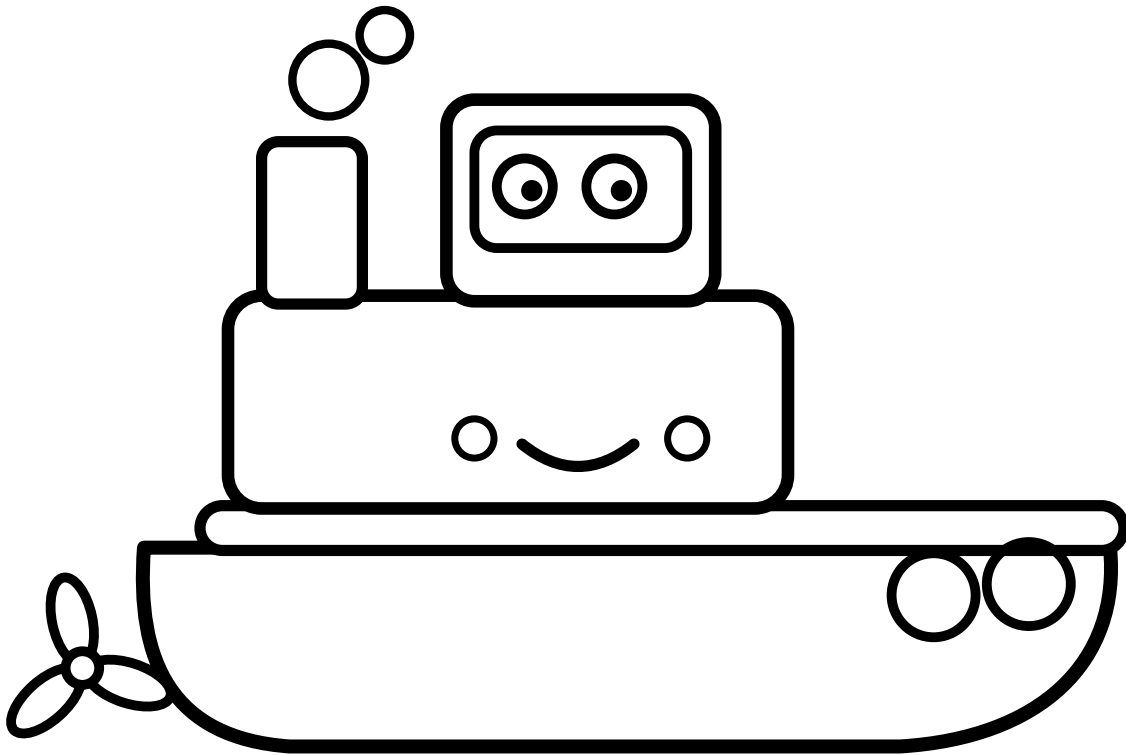
The engine turns the **SHAFT**, the shaft spins the blades,
and the blades push water (or air!) backward.

When water goes backward — the boat goes **FORWARD**!

Tuggy Tug

The Helper of the Harbor

Color Tuggy! Don't forget his propeller at the back.



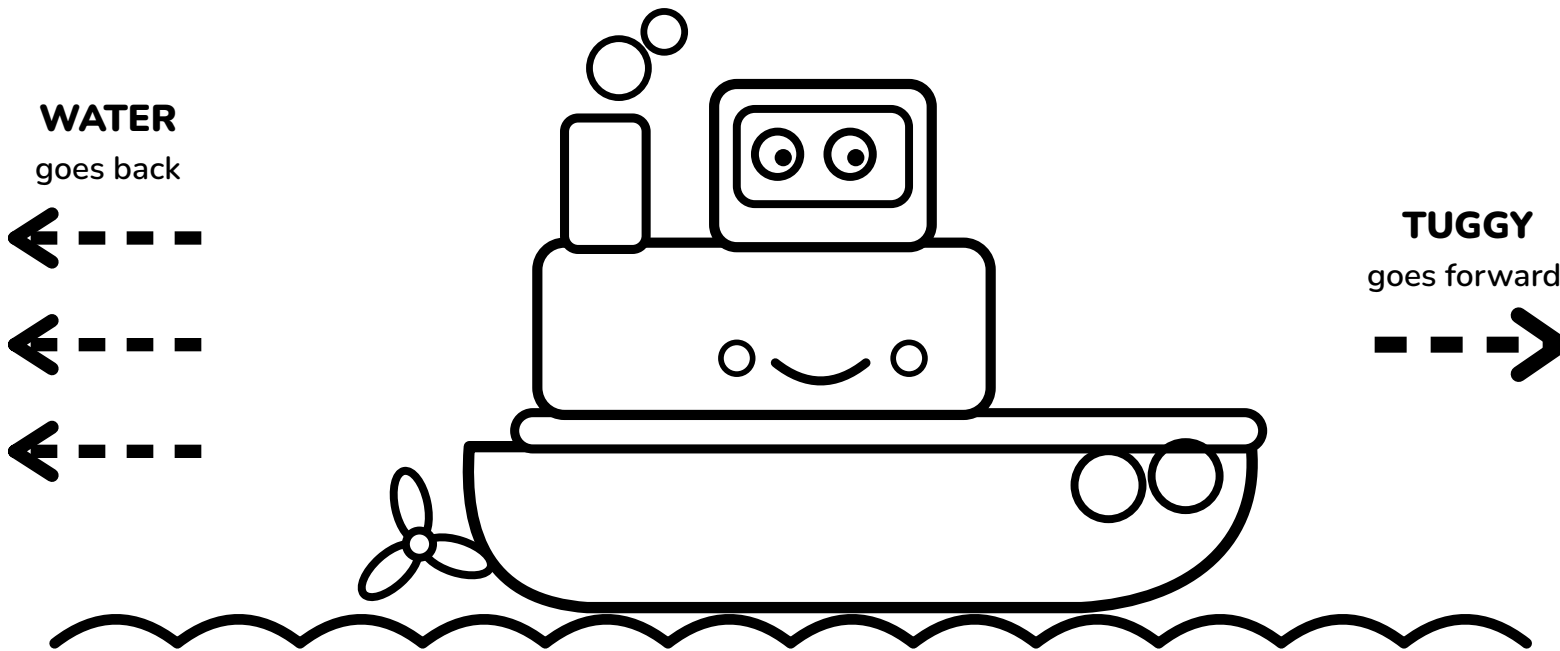
FUN FACT!

Tugboats are small, but their propellers are extra strong — strong enough to push and pull GIANT ships safely to the dock!

Push Makes Go!

The secret of every propeller

Trace the dashed arrows. Water gets pushed one way —
and Tuggy zooms the other way!

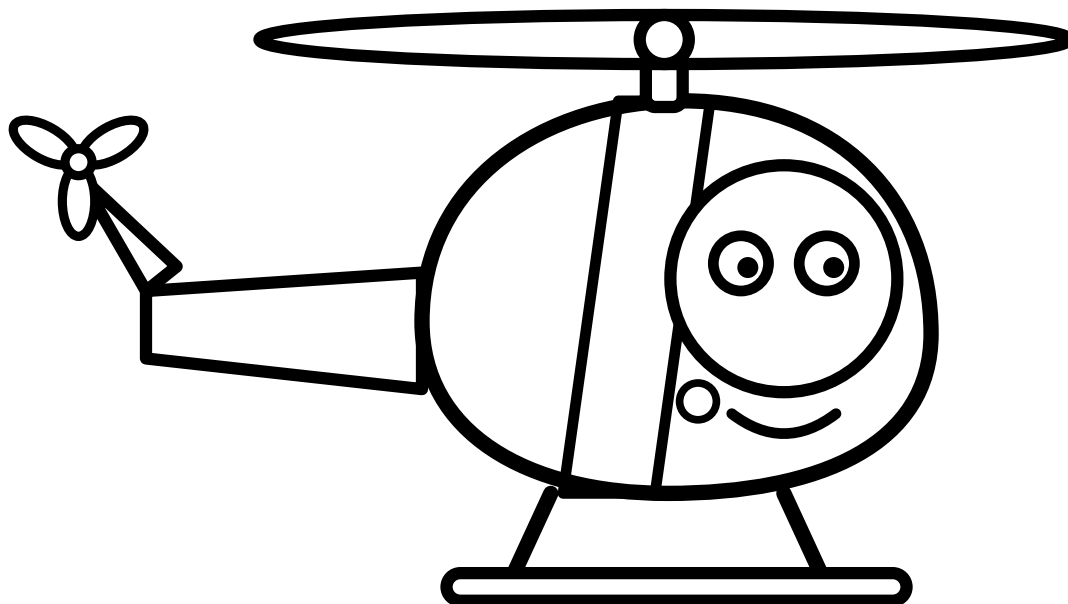


This is a real science rule called an ACTION and a REACTION:
when you push something one way, it pushes you back the other way.
Try it: sitting in a wagon, throw a ball forward — you roll back a tiny bit!

Heli

Coast Guard Helicopter

Color Heli! Draw someone waving to her from below.



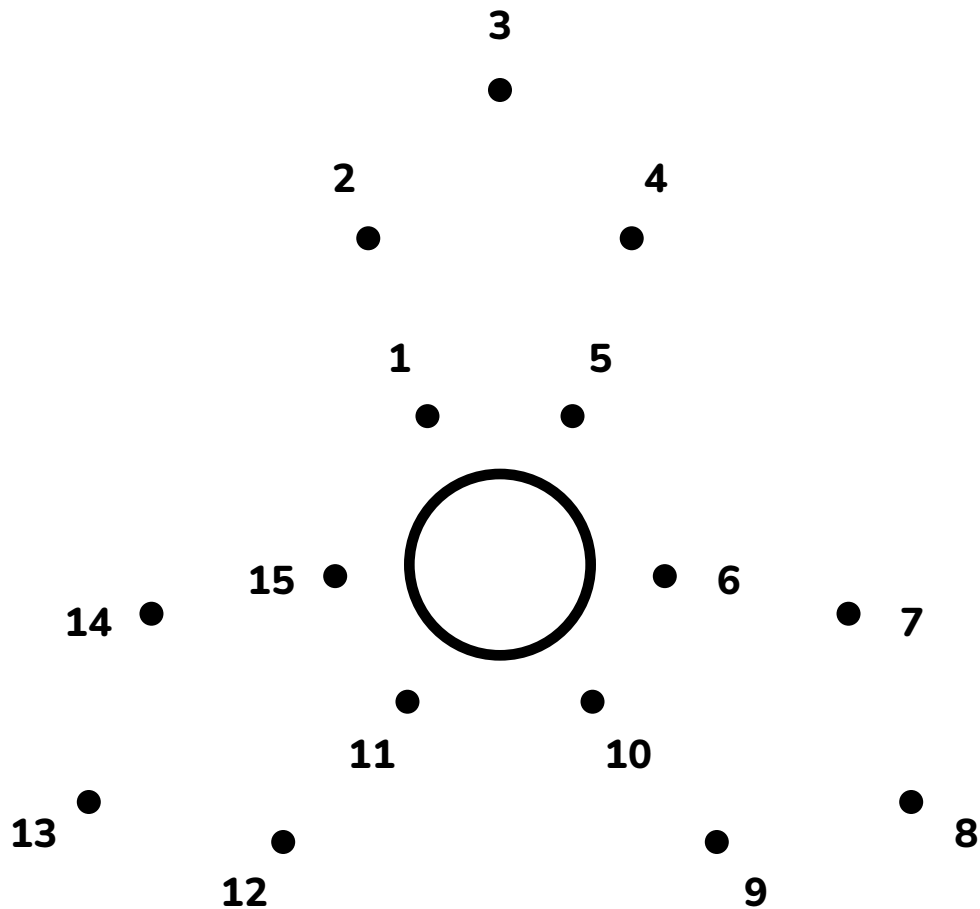
FUN FACT!

A helicopter's spinning blades are really long, skinny WINGS.
They spin so fast they lift Heli straight up into the sky!

Connect the Dots

What's spinning? Connect 1 to 15 to find out!

Draw a line from dot 1 to 2 to 3... all the way to 15,
then back to 1. Now color it!

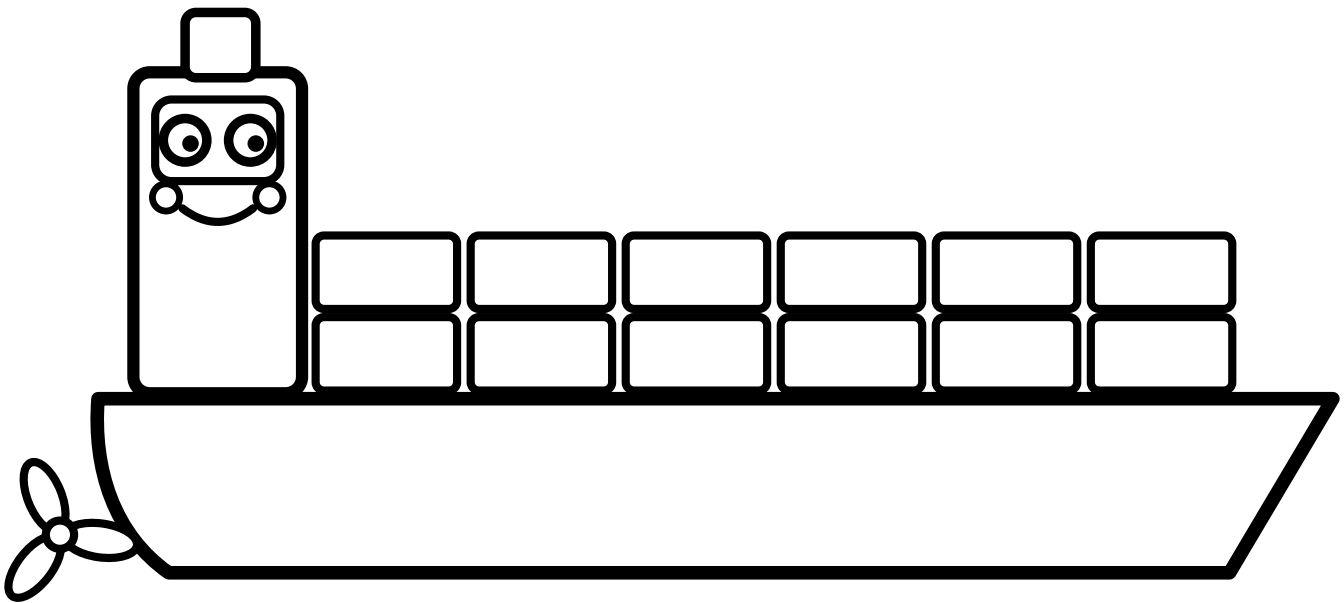


Hint: every boat and plane in Propeller Town has one!

Connie

The Containership

Color Connie and all 12 of her containers!



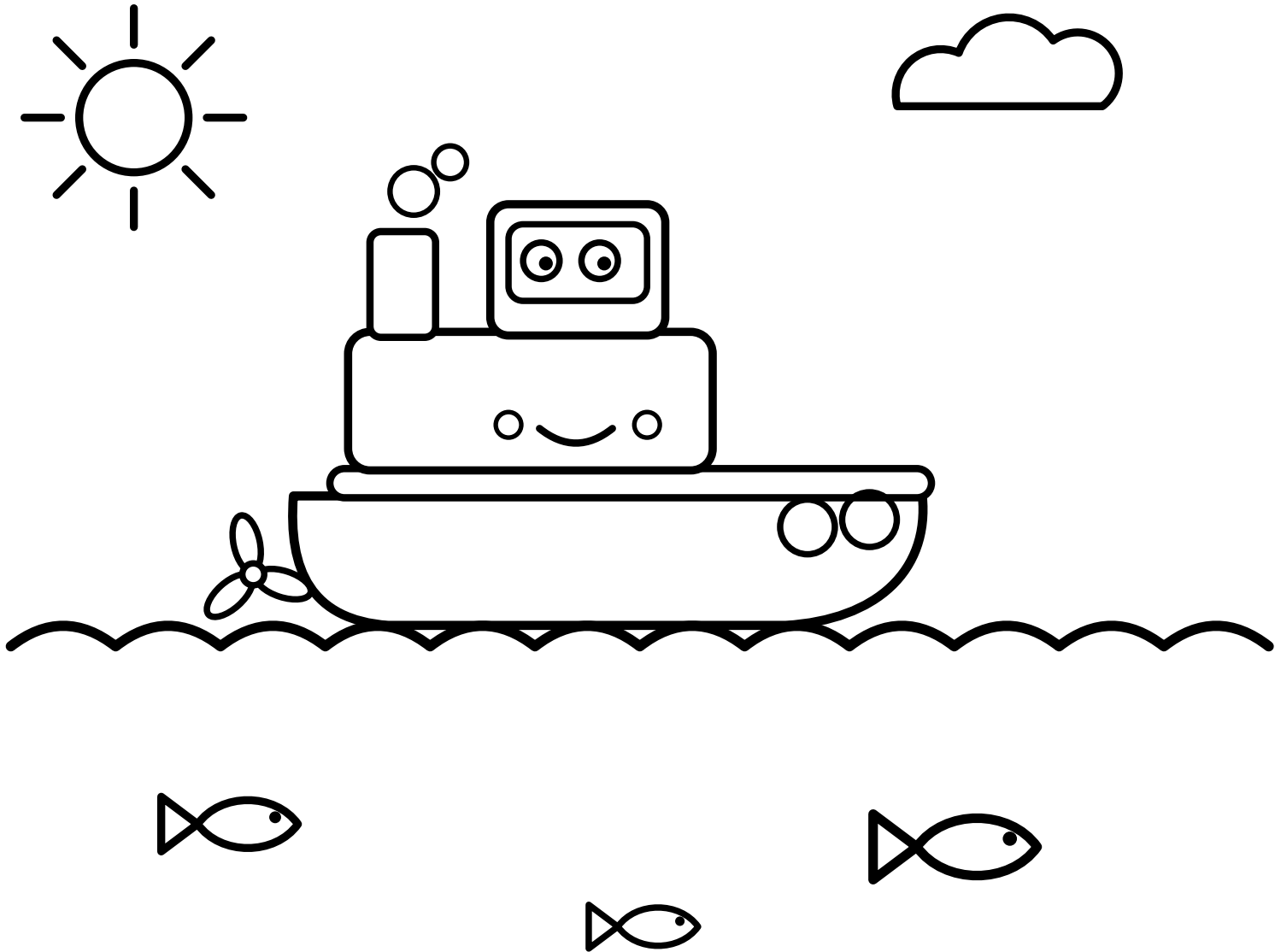
FUN FACT!

Big ships like Connie carry toys, food, and clothes across the ocean in giant metal boxes called containers. Color each one differently!

Why Do Boats Float?

Water pushes UP — that's called buoyancy

Color the picture. Then circle all 3 fish!



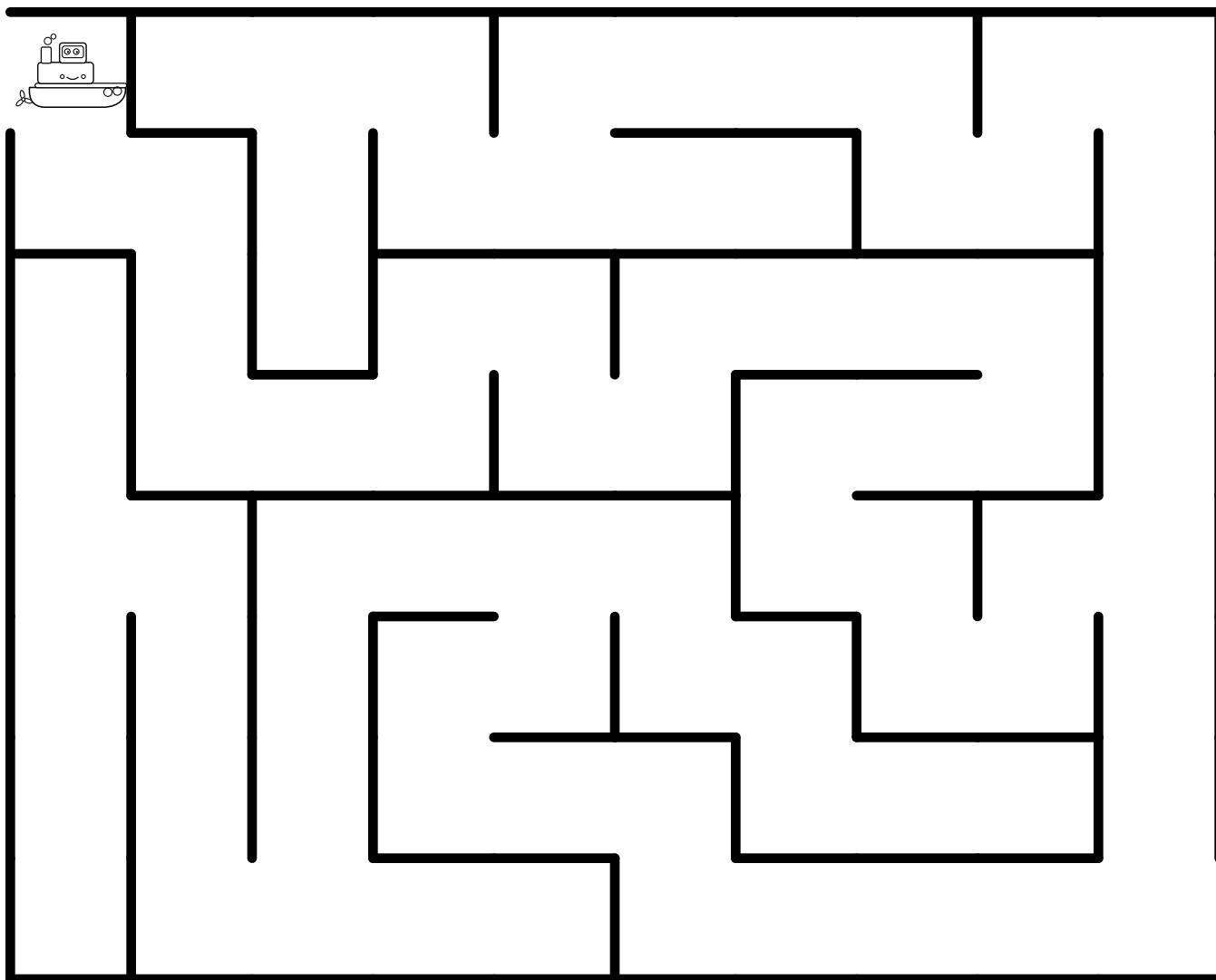
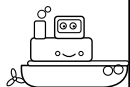
When Tuggy sits in the water, he pushes some water out of the way. The water pushes BACK — up on his hull! That upward push is called BUOYANCY, and it's what holds boats up. Even giant steel ships float because their wide hulls push away LOTS of water.

Harbor Maze

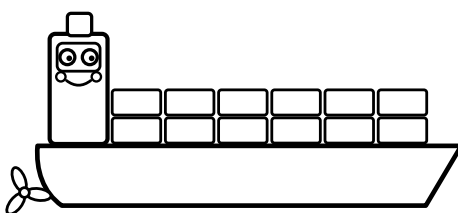
Help Tuggy tow the big ship to the dock!

Find the path through the harbor. No crossing walls!

START



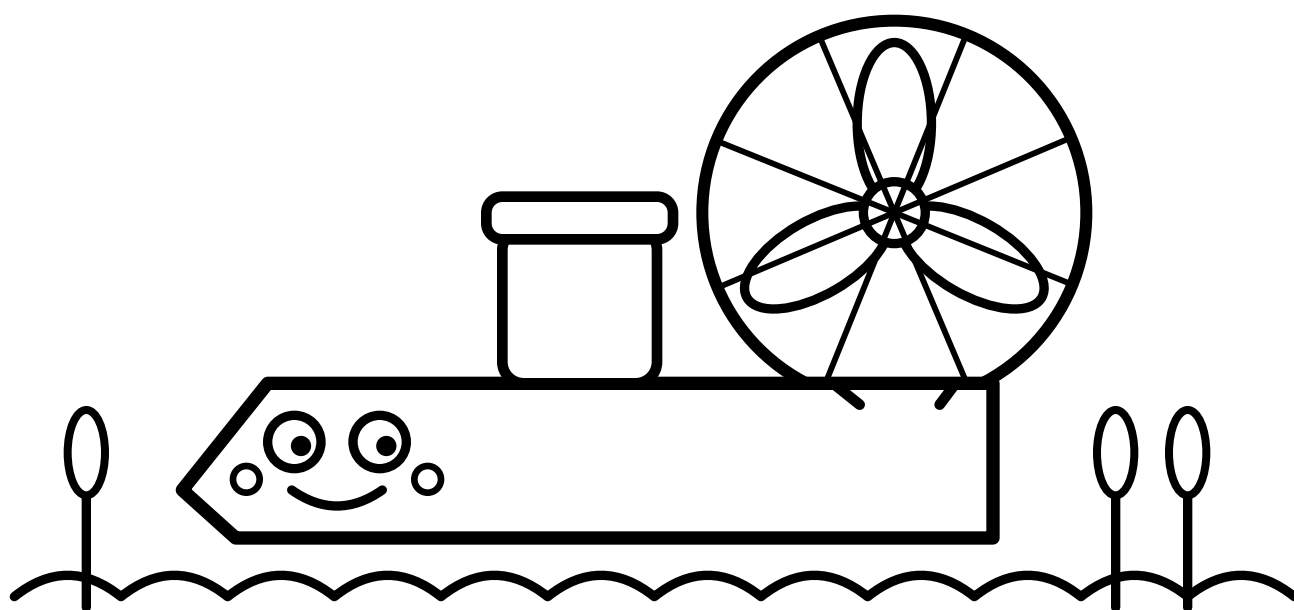
DOCK!



Fannie

Fan Boat Explorer

Color Fannie! Add some birds and fish to her marsh.



FUN FACT!

Fannie's propeller pushes AIR instead of water! That way she can glide over shallow marsh water without disturbing the plants and fish.

Count the Propellers!

Every pal needs them — how many do you see?

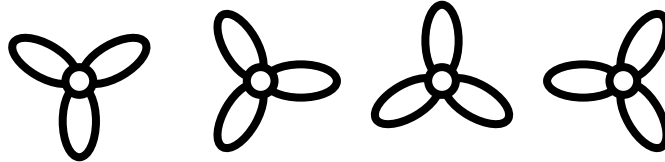
Count the propellers in each row.

Write the number in the box!

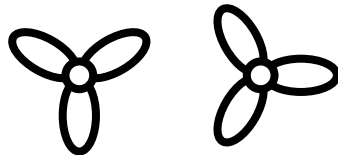
Tuggy has...



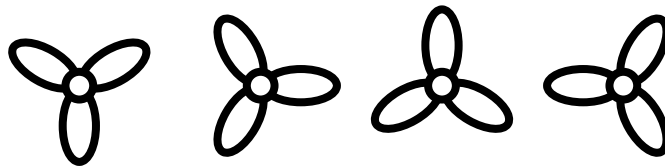
Drifty has...



Heli has...



Pete has...



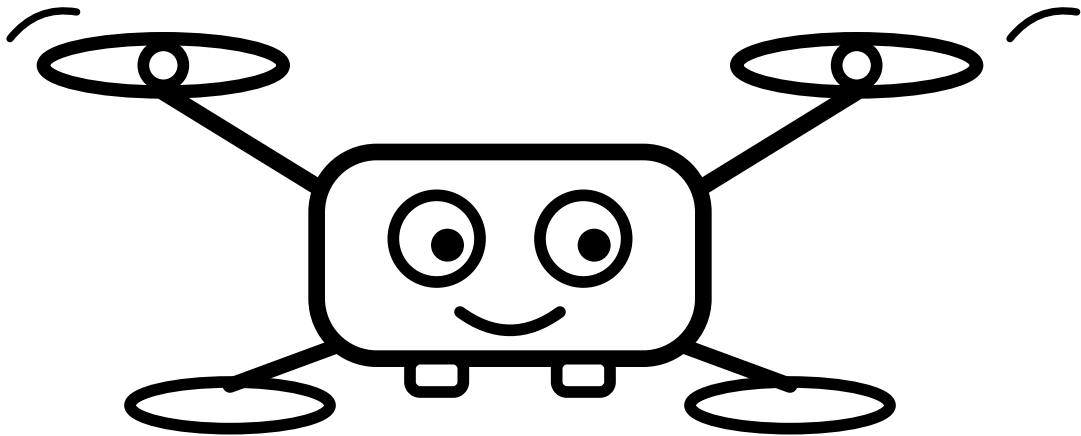
Now add them ALL together. How many propellers in Propeller Town today?

(Psst — count carefully: Heli has a big rotor on top AND a little one on her tail!)

Drifty

The Curious Drone

Color Drifty! Draw what he sees below him.

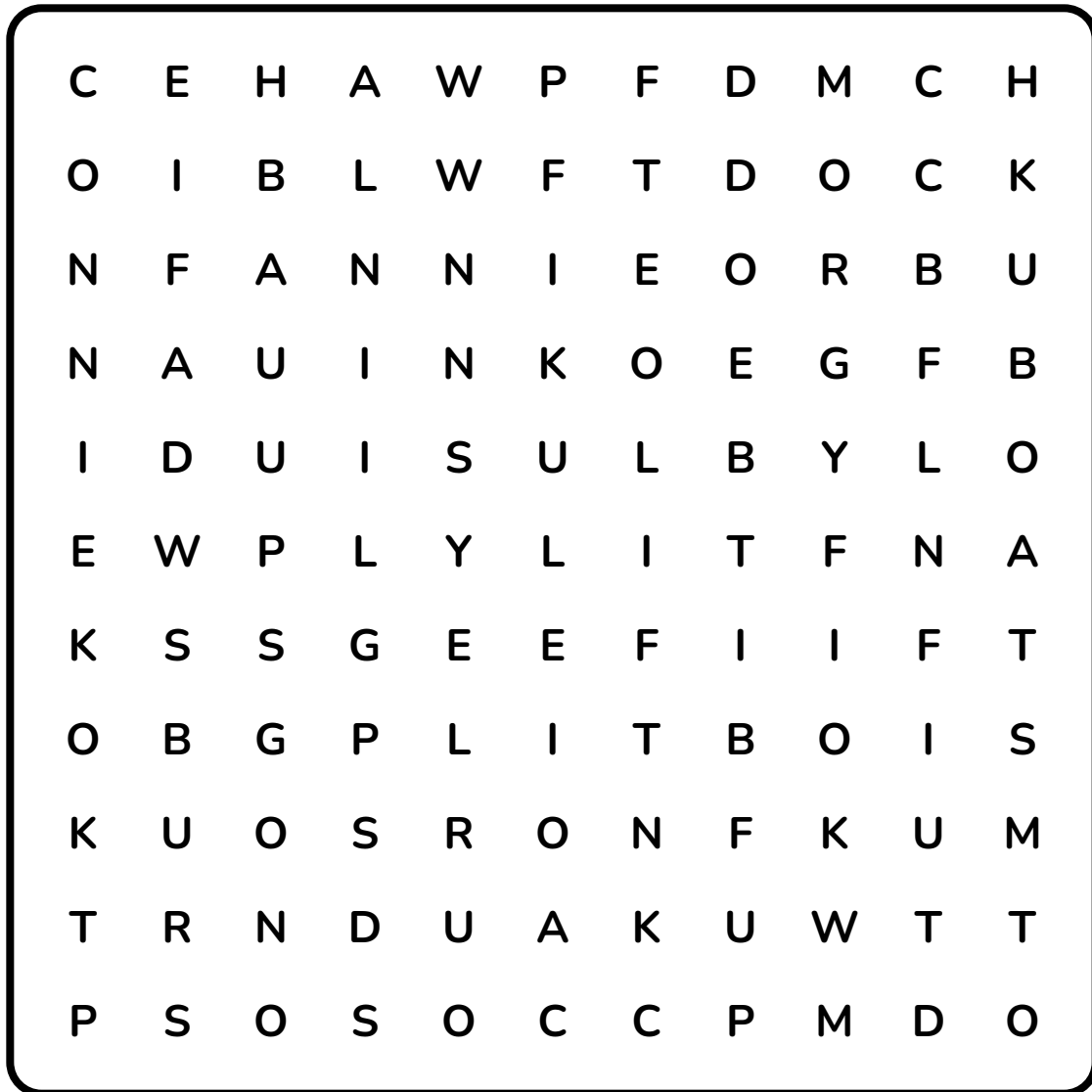


FUN FACT!

Drifty is a QUADCOPTER — 'quad' means four! His four propellers spin at different speeds to fly up, down, and all around.

Word Search

Find all 8 words hiding in the harbor!



PROPELLER • TUGGY • CONNIE • FANNIE

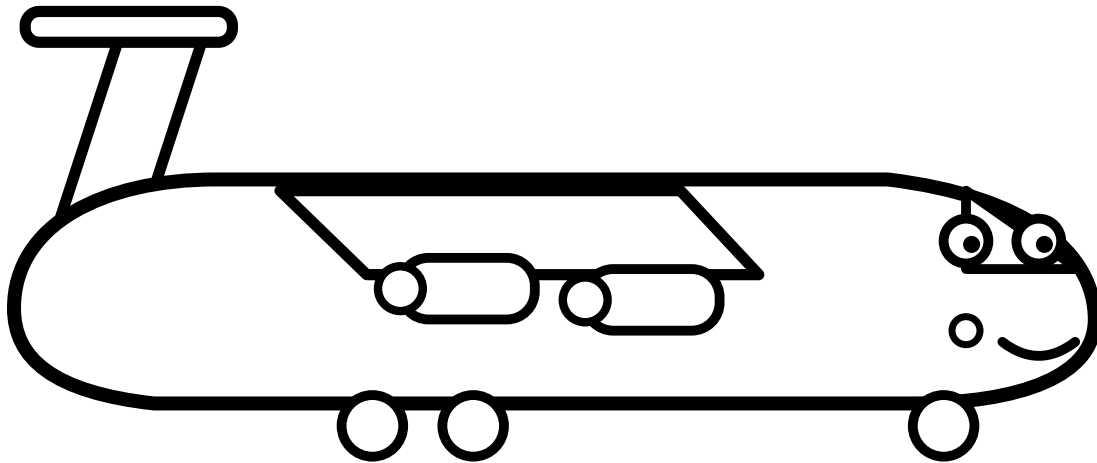
DRIFTY • SPIN • BOAT • DOCK

Words can go across, down, or diagonally!

Pete

The Big Transport Plane

Color Pete! Draw clouds for him to fly through.



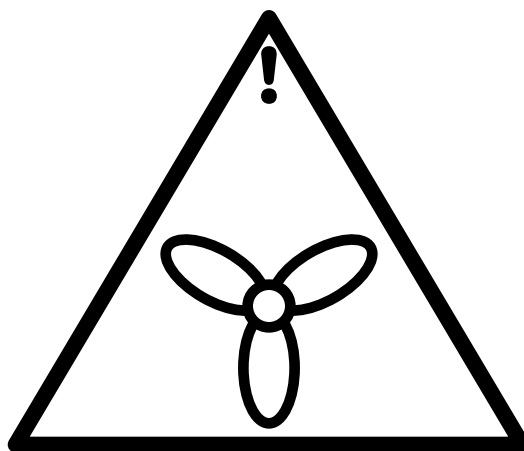
FUN FACT!

Pete's jet engines have huge spinning fan blades hiding inside — like propellers wearing a case! They push air back so Pete zooms forward.

Be Propeller Smart!

Real captains follow the safety rules

Color the warning sign. Then read the rules with a grown-up
and check the box after each one!



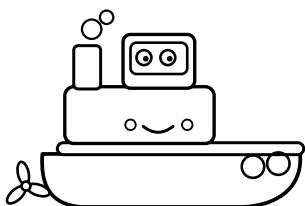
- ☐ NEVER swim or play near a boat's propeller — even a stopped one.
- ☐ Always wear your life jacket on the water.
- ☐ Stay seated while the boat is moving.
- ☐ Only grown-ups start the engine — always look behind the boat first!

Propeller Pals look out for each other. That's the crew way!

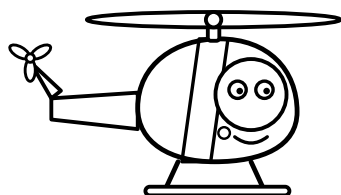
Who Works Where?

Draw a line from each pal to their home!

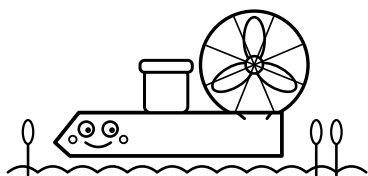
Match each Propeller Pal to the place where they work.



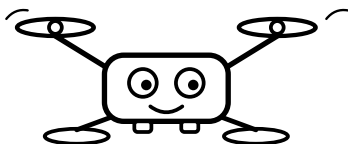
Tuggy Tug



Heli



Fannie



Drifty

THE MARSH

cattails and shallow water

THE SKY

clouds, way up high

THE HARBOR

docks and big ships

EVERYWHERE!

he's small enough to fly anyplace

Trace Like a Captain

Practice writing the crew's name!

Trace the gray letters. Then try writing them yourself!

PROPELLER PALS

PROPELLER PALS

PROPELLER PALS

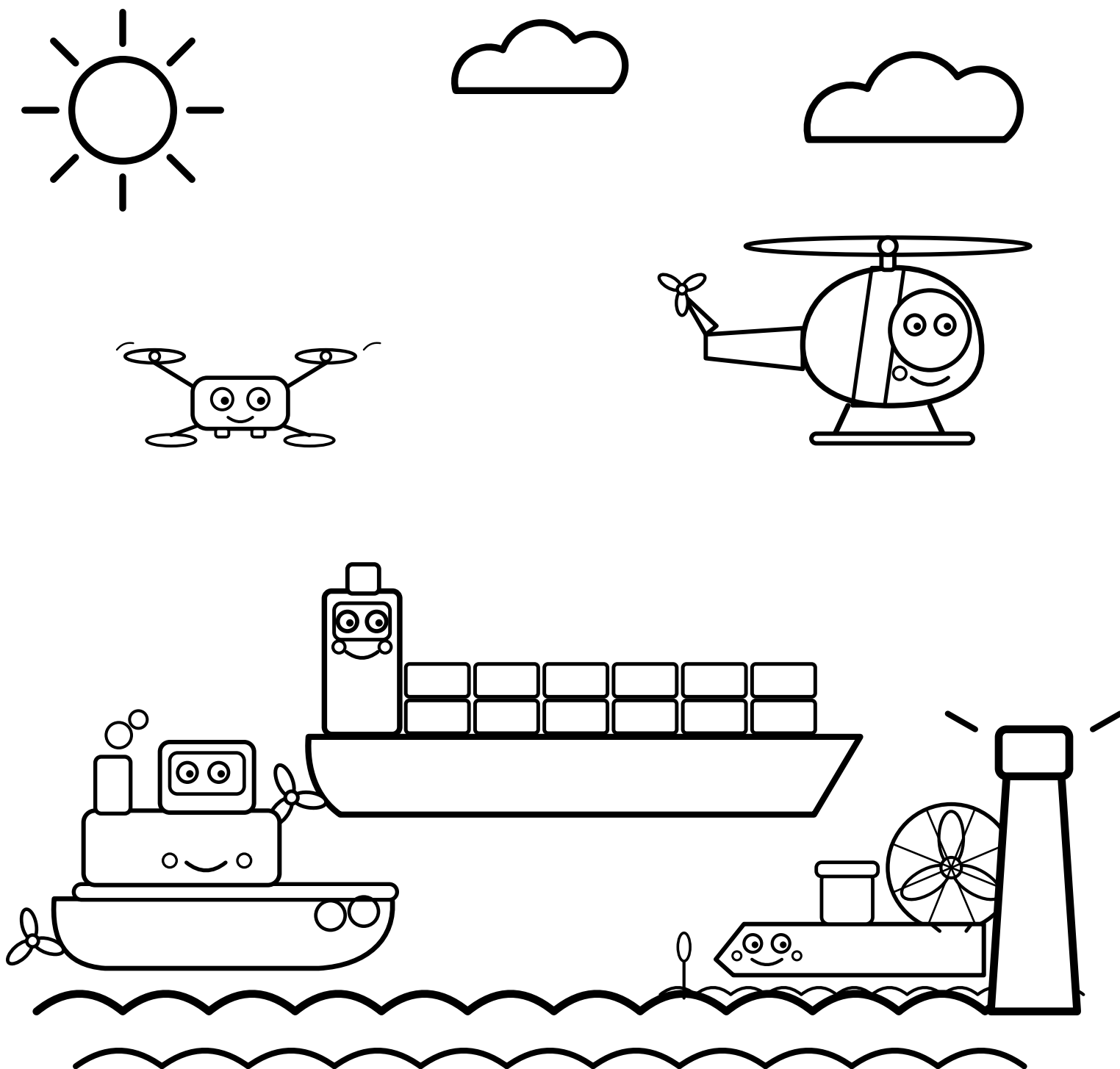
PROPELLER PALS

Now write it all by yourself:



Welcome to Propeller Town!

The big picture — color the whole harbor!



Can you find all 5 pals? One pal is missing — draw Pete flying by!

Design Your Own Pal!

Every crew needs new friends

Here's an empty hull and a propeller. Draw the rest!
Give your pal eyes, a smile, and anything else you dream up.

(build something up here!)



My pal's name is: _____

My pal's job is: _____

How many propellers?

Propeller Fun Facts!

True things to amaze your family



Some ship propellers are TALLER THAN A HOUSE

The biggest ones are as tall as three grown-ups standing on each other's shoulders!



Air or water — same trick

Boat propellers push water, plane propellers push air. Both push backward to go forward!



The word 'propeller' comes from 'propel'

Propel means 'to push forward.' Propellers are little pushers!



Most propellers have 3, 4, or 5 blades

More blades can push more smoothly — but they're heavier to spin.



Submarines use propellers too

Deep under the sea, a slow, quiet propeller pushes them along.

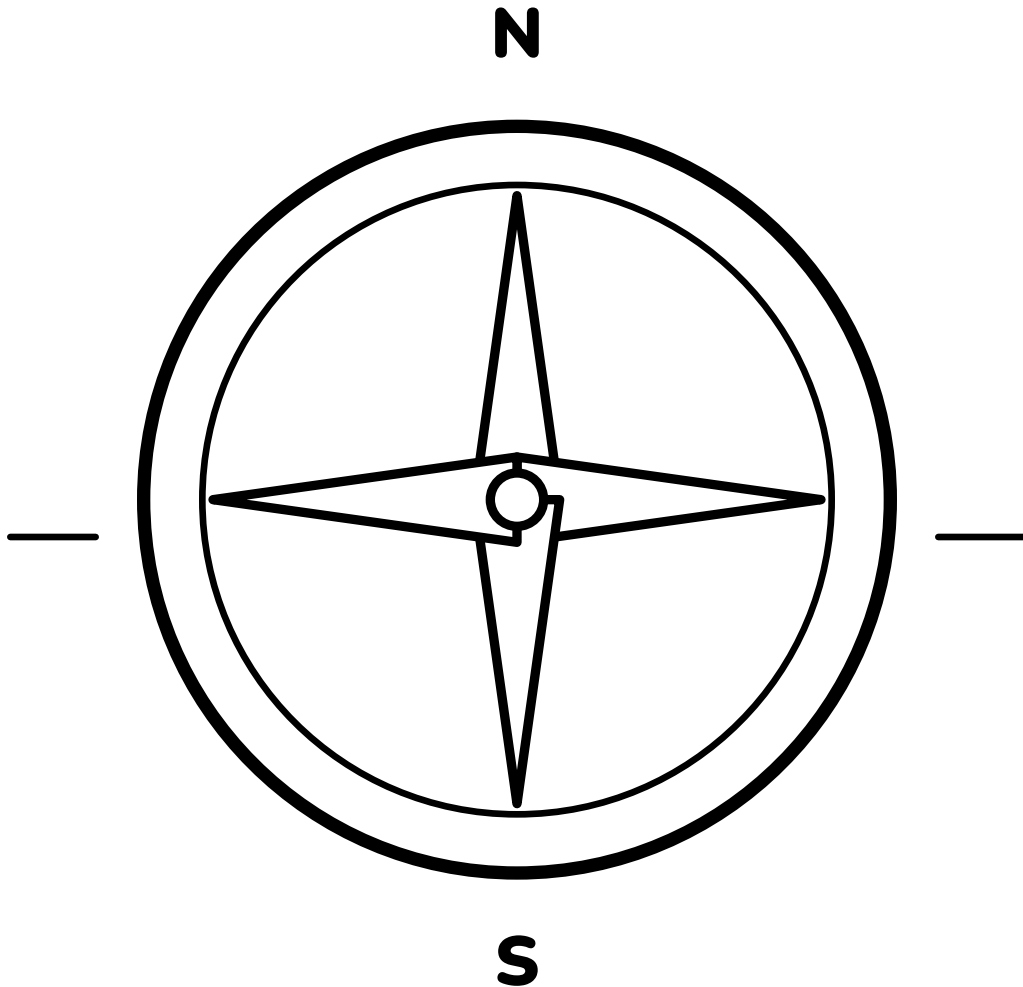
Draw a star next to your favorite fact —
then tell it to someone at dinner tonight!

Which Way, Captain?

Ships find their way with a compass

Color the compass rose. Then fill in the missing letters!

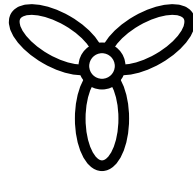
N is North, E is East, S is South, W is West.



Captains say it like this: 'The dock is NORTH of us — full speed ahead!'

Try it at home: which way is your bedroom from the kitchen?

Ask a grown-up to show you a compass — many phones have one!



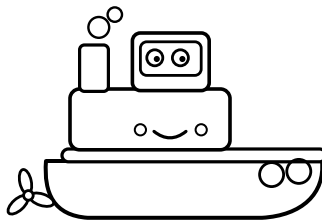
OFFICIAL CREW CERTIFICATE

Junior Propeller Engineer

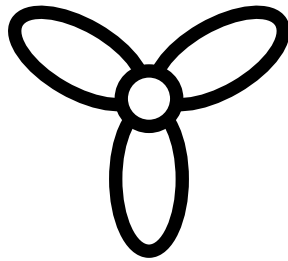
This certifies that

finished every page, learned how propellers push,
and is hereby welcomed aboard the crew of Propeller Town.

Date: _____



Signed: Tuggy Tug, Harbor Captain



PROPELLER PALSTM

Coloring & Activity Book

Propeller Pals is a children's STEM series from Propeller Town — a busy harbor city where every boat, plane, and drone has a story.

Made with love in Charleston, South Carolina.

Our first storybook is coming soon!

Connie's Big Adventure — a storybook adventure

Sign up at propellerpals.com to hear when it launches.

Families and teachers: you're welcome to print this book
for home and classroom use. Have fun!

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