

THE ADVENTURES OF CAPTAIN CLEANWATER

An Activity Book For Kids About
Clean And Safe Boating



U.S. Department
of Transportation
United States
Coast Guard



2100 2nd Street SW
Washington, DC 20593



Center for Marine Conservation
Pollution Prevention Program
1725 DeSales Street, NW #500
Washington, DC 20036

♻️ Printed on recycled paper using soy-based inks.

ACTIVITY 1

Who is There to Help?

Captain Cleanwater wants you to know the name of the group of people in the United States who enforce laws to prevent pollution of our river, lakes, and oceans. These people also work to keep boaters safe in U.S. Waters. Solve the puzzles below. Use the letter in each bubble to spell the final answer on the boat below.

1. Plants and animals that live in the water are hurt by people who ____ oil, sewage, and litter over the side of their boat.

___ ___

2. If you see an oily, rainbow-like sheen on the top or surface of the water it means oil or gasoline has been ____.

_ _ _ _ _

3. People who practice clean boating actually use less soap in their pail or ____ when washing their boat.

___ _ _ _

4. For safe boating trip, make sure your boat's ____ is cleaned, tuned, and working.

___ _ _ _

5. A Marine Sanitation Device, or MSD, is a piece of equipment put on a ____ to treat or hold sewage from a toilet.

___ _ _ _

6. It is against the law to discharge or dump untreated ____ from a boat's toilet into any U.S. waters within three miles of shore.

_ _ _ _ _

7. Trash on beaches, like cans, paper cups, bottles, straws, and cigarette butts is called ____.

___ _ _ _

8. Bottles, cans, trash and other kinds of ____ should not be dumped into any waterways, such as lakes, rivers, and the ocean.

_ _ _ _ _

9. Gasoline is a type of ____ for a boat's engine.

___ _ _ _

10. To prevent an ____ be sure to obey speed zones and buoy markers when piloting a boat.

_ _ _ _ _

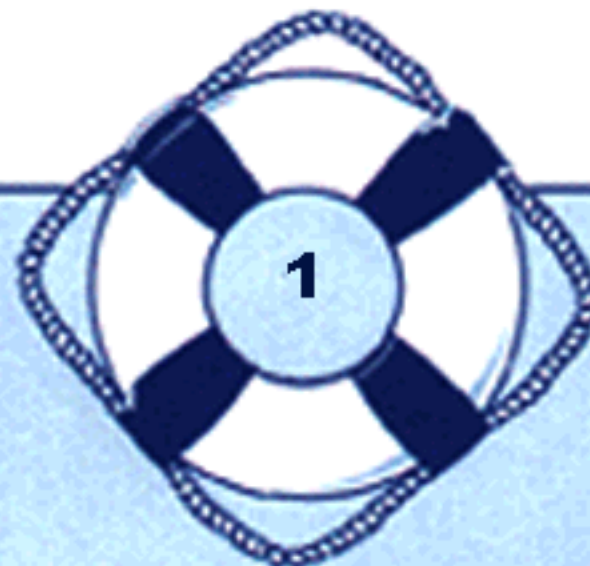
11. The MARPOL Treaty, which stands for MARine POLLution, is an international agreement made by many countries around the world. These countries promise not to dump oil, chemicals, or plastic ____ into the sea from their ships.

___ _ _ _

12. It is a good idea to have a two way ____ on board a boat to call the Coast Guard in case you need help.

___ _ _ _

clues: sewage, garbage, accident, trash, bucket, dump, spilled, motor, boat, litter, fuel, radio



ACTIVITY 2

Safety First!

Safety Aboard the _____
(name your boat in the space above and on the stern, or back of the boat below)

Boating can be safe and enjoyable for everyone if you learn a few safety rules and treat the water with respect. Boating Safety Makes Good Sense!

Using the words in the clue box below, complete the following safety rules.

1. Be sure to wear your life _____. Put it on before boarding. Have one for each passenger.

2. Do not leave the dock until you check all of your _____ such as the lights, engine, and radio, to make sure they work.

3. Once on board, sit or kneel. Unless you are asked to help, remain _____ when the boat is departing or returning to the dock.

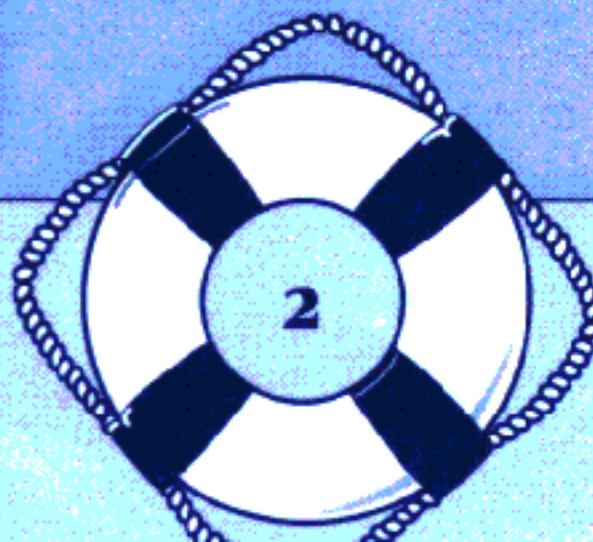
4. To prevent injuries when departing from the dock, or when returning to the dock, do not put your hands or feet between the dock and the _____.

5. _____ on the seats of a boat can be dangerous. It is safer to sit or kneel.

6. Buoys are used to mark channels and obstructions. Navigating your boat within the channel can prevent it from hitting the _____.

7. Be sure to obey speed zone signs when in your boat. Going too fast can risk the _____ of your passengers.

CLUES: standing, boat, jacket, equipment, bottom, safety, seated.



ACTIVITY 3

Clean Boating—Clean Water

People who use boats can help keep water clean. To learn more about clean boating and clean water, help Captain Cleanwater complete the crossword puzzle below.

1 ACROSS. If not properly stored, ____ bags for ice can blow out of a boat and become marine debris or litter.

2 DOWN. Boaters must be careful not to spill gasoline when putting fuel into their boat at a marina or ____.

3 DOWN. Sewage dumped or discharged from many boats can pollute bodies of water such as the ocean, a river, a stream, or a ____.

4 ACROSS. Animals in nature, often called ____, need a clean habitat or home to live in.

5 DOWN. The U.S. Coast Guard can issue a boater a ____ if he or she is found guilty of throwing plastic trash into the water. This could cost a lot of money.

6 ACROSS. While at a marina you should ____ empty soda cans, used oil for motors, and empty glass bottles so they are not thrown into a landfill, or the water.

7 ACROSS. To help prevent boating accidents, members of the U.S. Coast Guard Auxiliary teach people boating ____ classes.

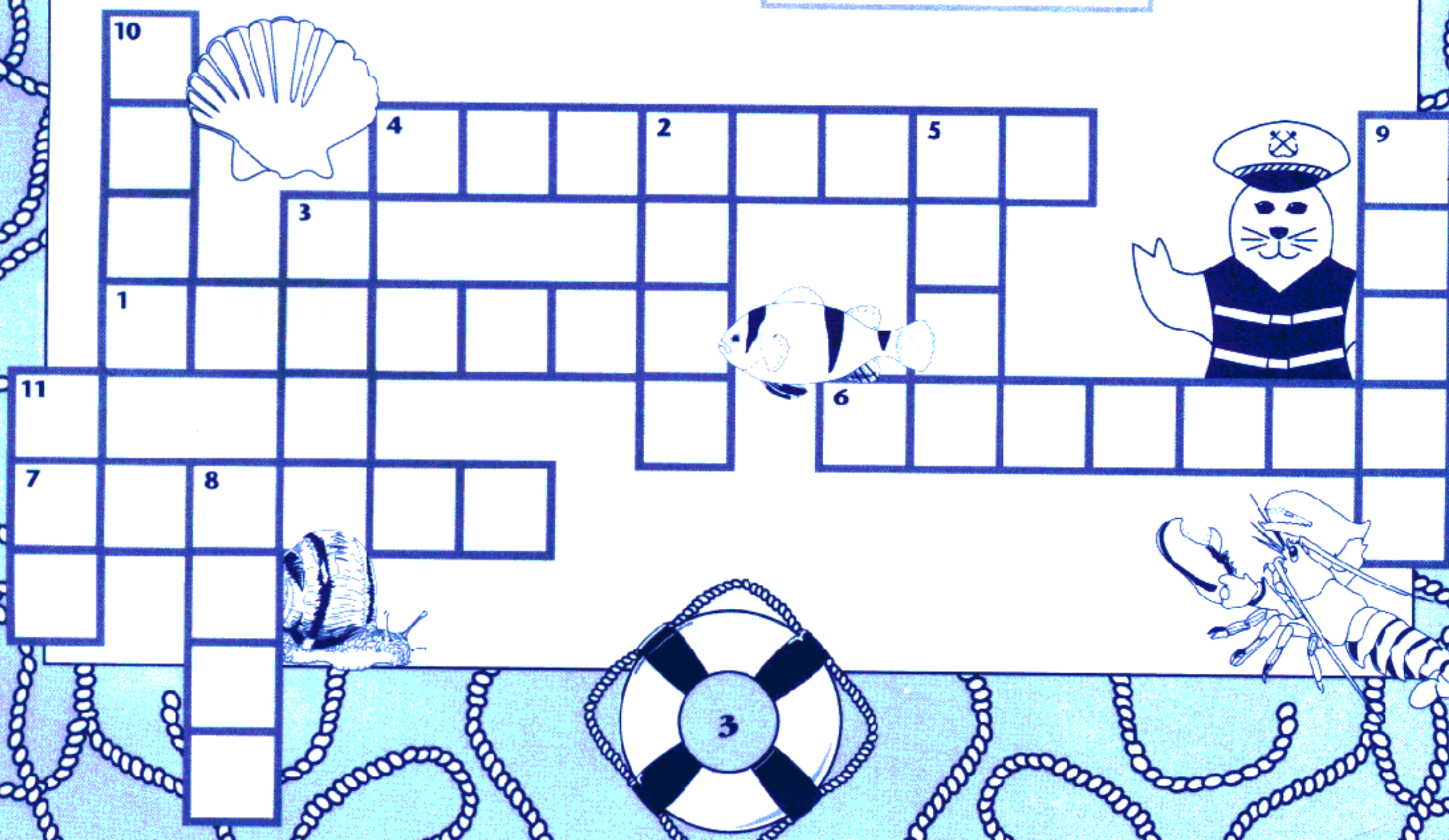
8 DOWN. If oil, paint, sewage, and litter are spilled into the water they can harm the ____ that swim there.

9 DOWN. When repairing your boat, keep paint, cleaners, oil, and litter away from the _____. This will help keep water clean.

10 DOWN. Many marinas now have pump out facilities to remove sewage from a boat's toilet, so that people will not ____ the boat's sewage into the water.

11 DOWN. What three letters stand for marine sanitation device? ____ This is the equipment on board a ship that treats sewage.

CLUES: lake, wildlife, ticket, safety, fine, paper, MSD, dump, plastic, dock, recycle, fish, water, SOS.



ACTIVITY 4

Boat Talk!

Boaters have special names for the parts of a boat and the equipment they use. In order to be a safe boater you must be a smart boater.

Read the words and definitions below. Help Captain Cleanwater label the boat and equipment on the next page.

Bow

The front of a boat.

Port

The left side of a boat looking forward from the helm.

Starboard

The right side of a boat looking forward from the helm.

Wheel

The steering equipment located at the helm.

Stern

The back of a boat.

Anchor

A heavy device attached to a boat by a cable, rope or chain, and lowered over the side of the boat to hold it in place.

Cleat

A wooden or metal fitting on the deck of a boat. It has two projecting horns around which a rope or line may be tied.

Life Jacket

A vest that helps people float in the water.

Marine Radio

A special two-way radio that allows a boater to communicate with other boaters and with the U.S. Coast Guard.

Compass

A device that uses a magnetic needle to indicate direction.

Deck

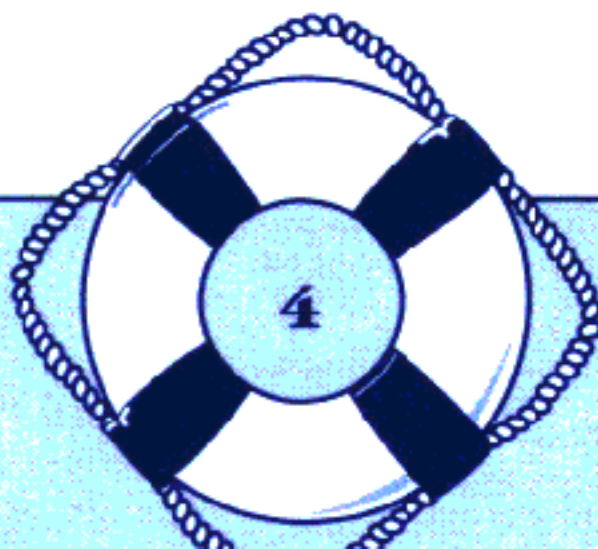
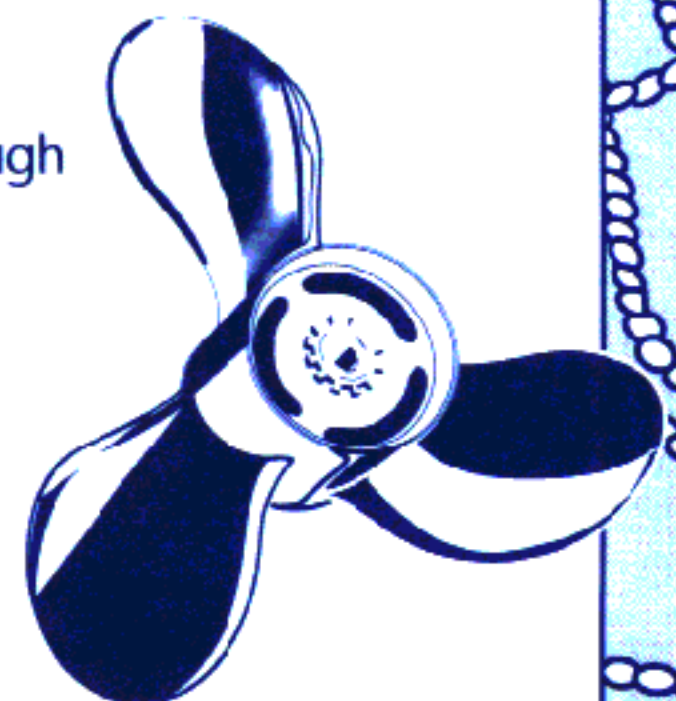
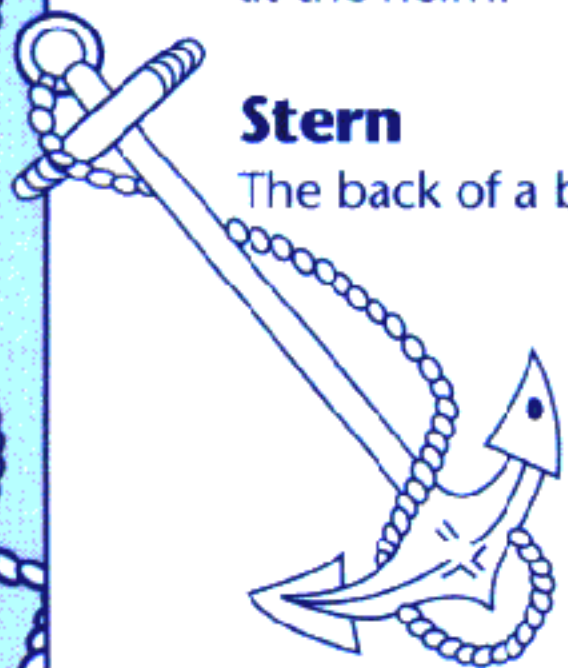
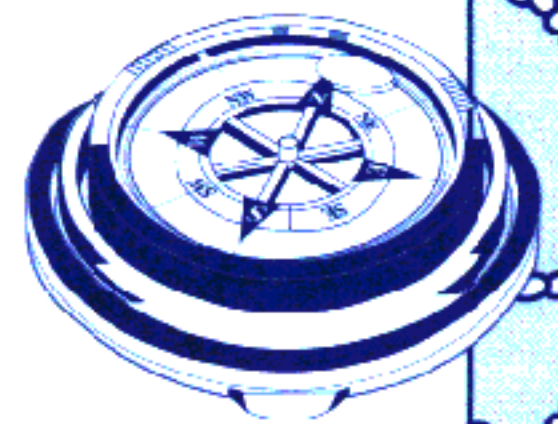
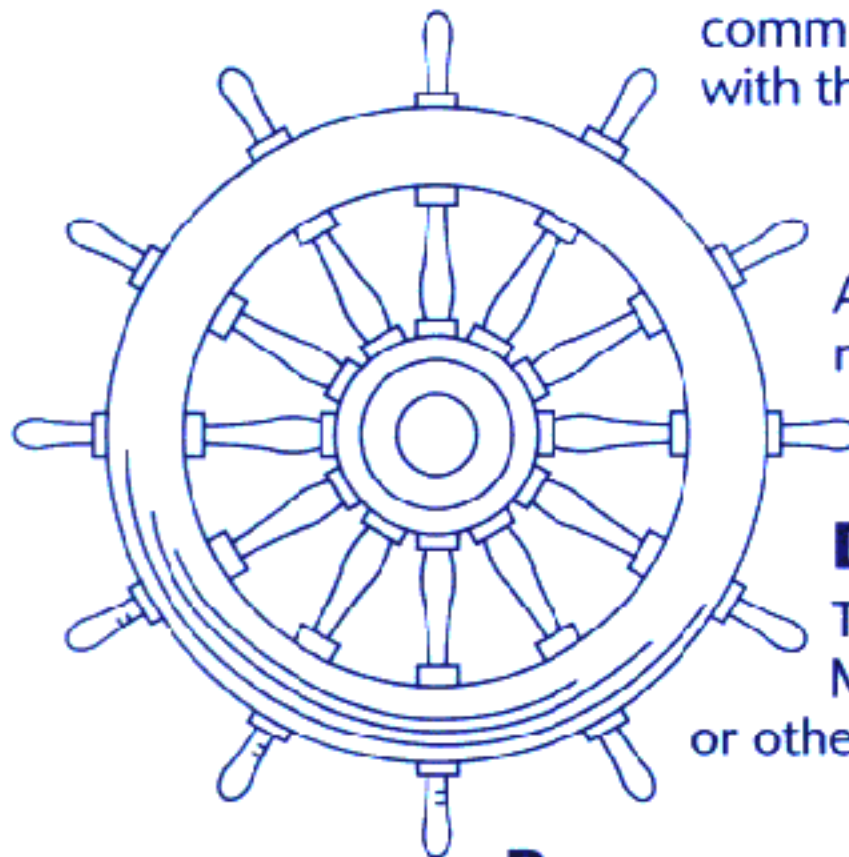
The open floor area on a boat. May be made of wood, fiberglass, or other material.

Buoy

A float in the water anchored to the bottom.

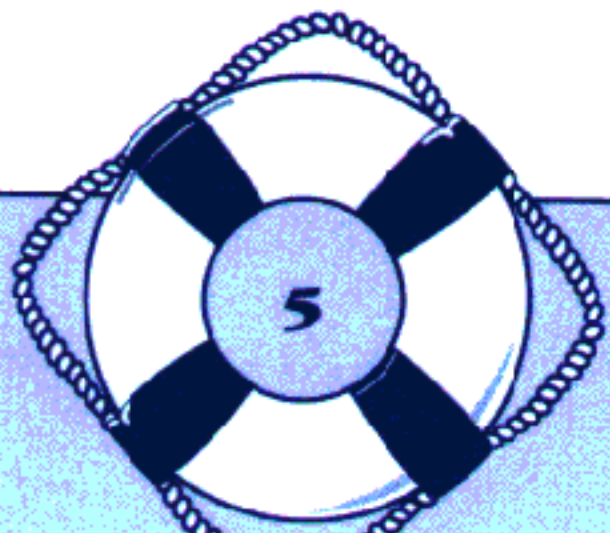
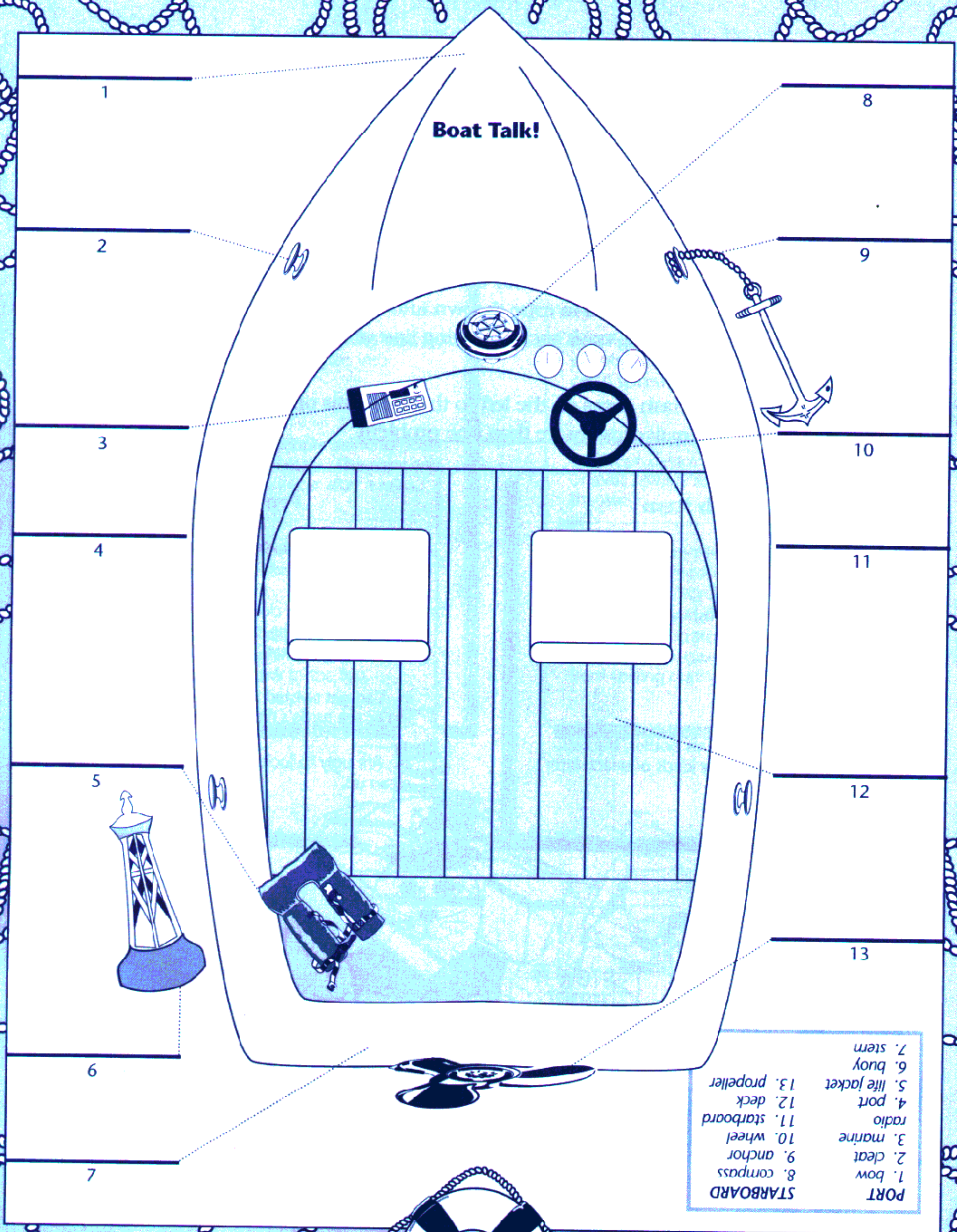
Propeller

Rotating blades attached to the engine that move the boat through the water.



Boat Talk!

- PORT**
- 1. bow
 - 2. cleat
 - 3. marine radio
 - 4. port
 - 5. life jacket
 - 6. buoy
 - 7. stern
- STARBOARD**
- 8. compass
 - 9. anchor
 - 10. wheel
 - 11. starboard
 - 12. deck
 - 13. propeller



ACTIVITY 5

Trash Problems

Litter, garbage, or trash that ends up in the water is called *marine debris*. Captain Cleanwater knows that marine debris can be harmful. Floating trash can actually damage a boat's motor! Some floating trash looks like food to some animals who live in the water, and they may get sick if they eat it. Some animals die because they can not swim once they get twisted in rope thrown into the water. And some animals can not eat because floating trash such as fishing line gets wrapped around their necks, throats, or beaks.

Match several of the trash items on the left to the problems on the right. Remember that each trash item may cause more than one problem.

Trash Item

1. Plastic bags
2. Monofilament fishing line
3. Rope/line
4. Cans, straws, glass bottles, buckets, milk jugs, and other kinds of beach litter

Problem

- a. Can wrap around and damage a boat's propeller.
- b. Can block or clog the engine's water in-take equipment, causing the boat engine to overheat.
- c. Can get twisted around a sea bird's leg or sea turtle's flipper.
- d. Are ugly to look at and expensive to clean up.



ACTIVITY 6

Pollution Solutions

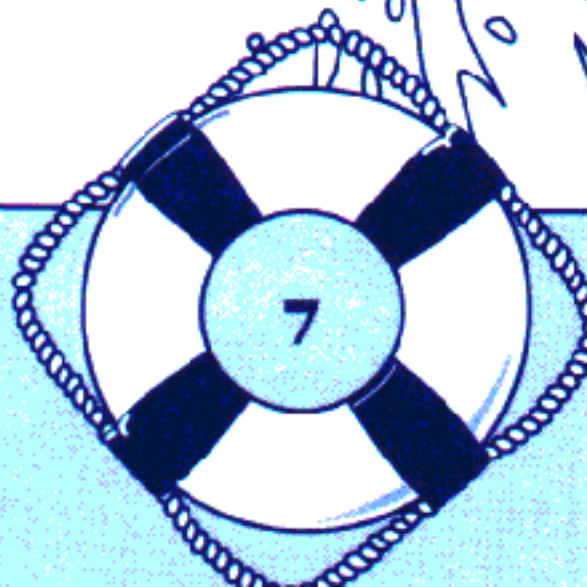
Captain Cleanwater watches out for pollution on the water. Draw a line to connect a pollution problem to the pollution solution!

Pollution Problem

1. During a boat ride, two kids throw soda cans and food wrappers into the water.
2. At a boat yard, people painting boats often spill paint and soap. The paint and soap wash into the water after it rains.
3. Sewage dumped into the water from boats can pollute shellfish such as clams and oysters.
4. People accidentally spill gasoline or fuel into the water when they are filling their boat's fuel tank to the top.

Pollution Solution

- a. While painting and repairing a boat, people use large cloths on the ground to catch spilled paint and paint scraps.
- b. Some boaters install a marine sanitation device on board to hold or treat sewage so it does not pollute the water.
- c. Clean boaters keep a garbage can on board their boat for trash. The trash is emptied and recycled at the dock.
- d. Marina operators install "shut-off" valves on their gas pumps to stop fuel from spilling during refueling.



ACTIVITY 7

Marine Debris is Trouble for ME!

Did you know that plastic trash thrown into the water by people on boats can be a real problem for a long time?

Animals can eat trash and die, or they can get entangled in it and become injured. It is hard to swim with rope caught on your flipper, neck, or leg!

People don't like to see litter floating in lakes or in the ocean. It's no fun to go on a vacation and walk along a beach littered with trash. People can cut their feet on broken glass bottles.

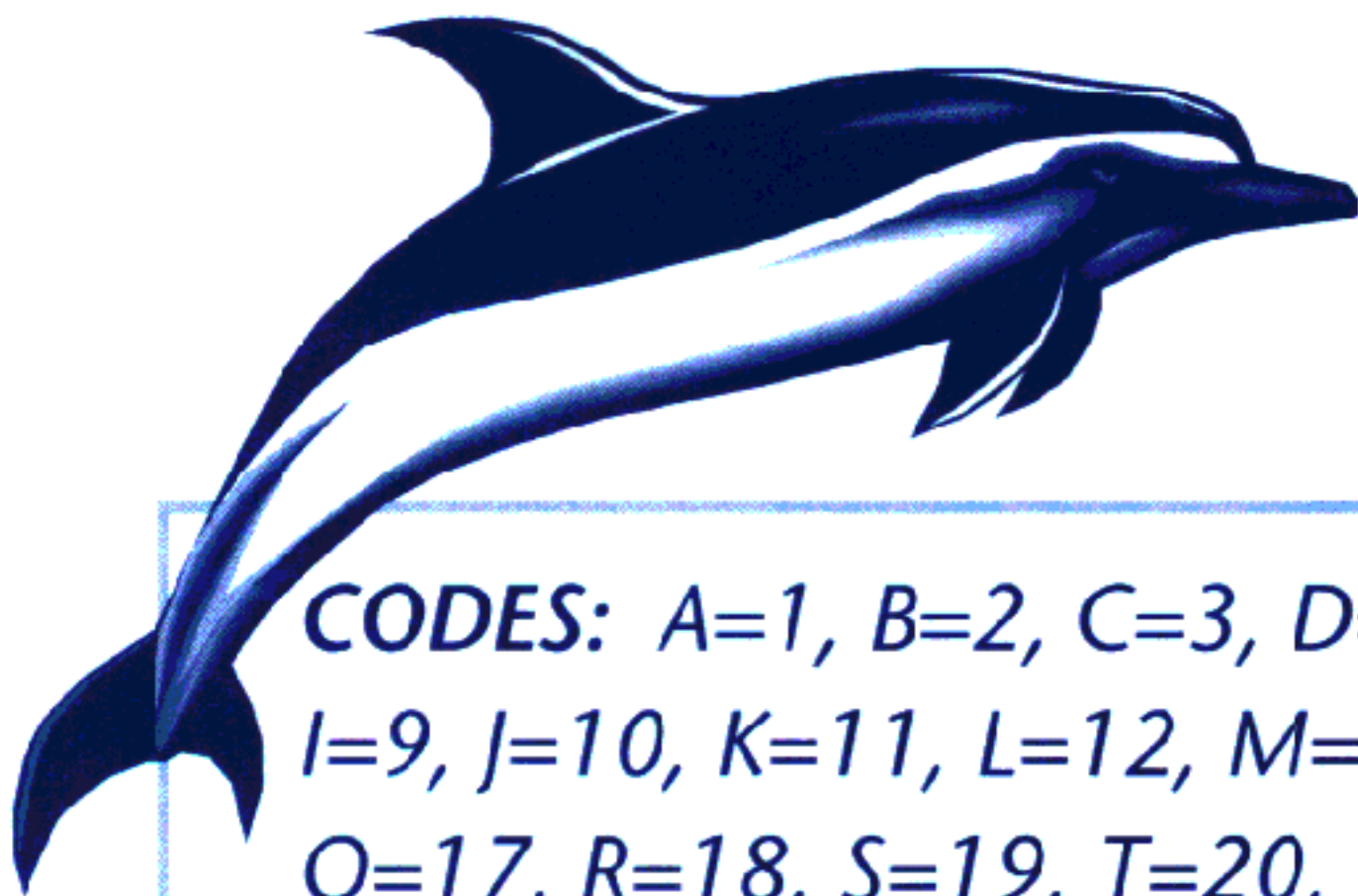
Plastic debris can get tangled in boat propellers, damage the engine and threaten the safety of boaters. A boat in the water that will not work can be very dangerous.

Answer the math questions below. Match the numerical answer to the letter code for that number. Captain Cleanwater wants you to know that marine debris can be a problem for people and animals.

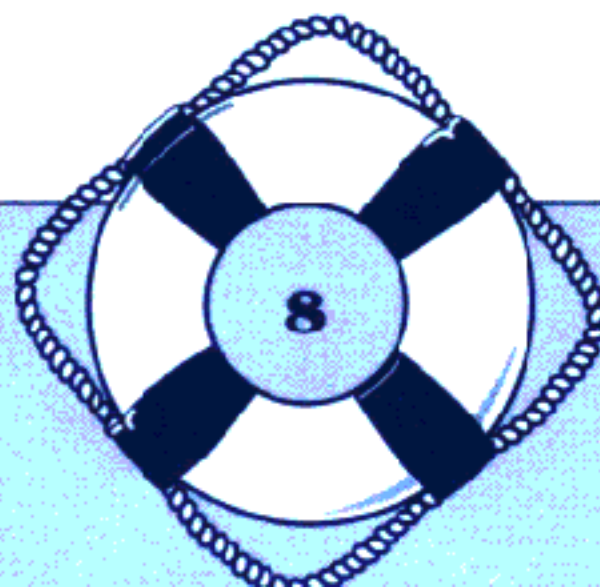
Help Captain Cleanwater solve each code and find out who or what is hurt by marine debris.

1. $\frac{10 \times 2}{7 + 8}$ $\frac{3 \times 7}{3 \times 6}$ $\frac{6 + 3}{10 + 9}$ $\frac{18 + 2}{}$

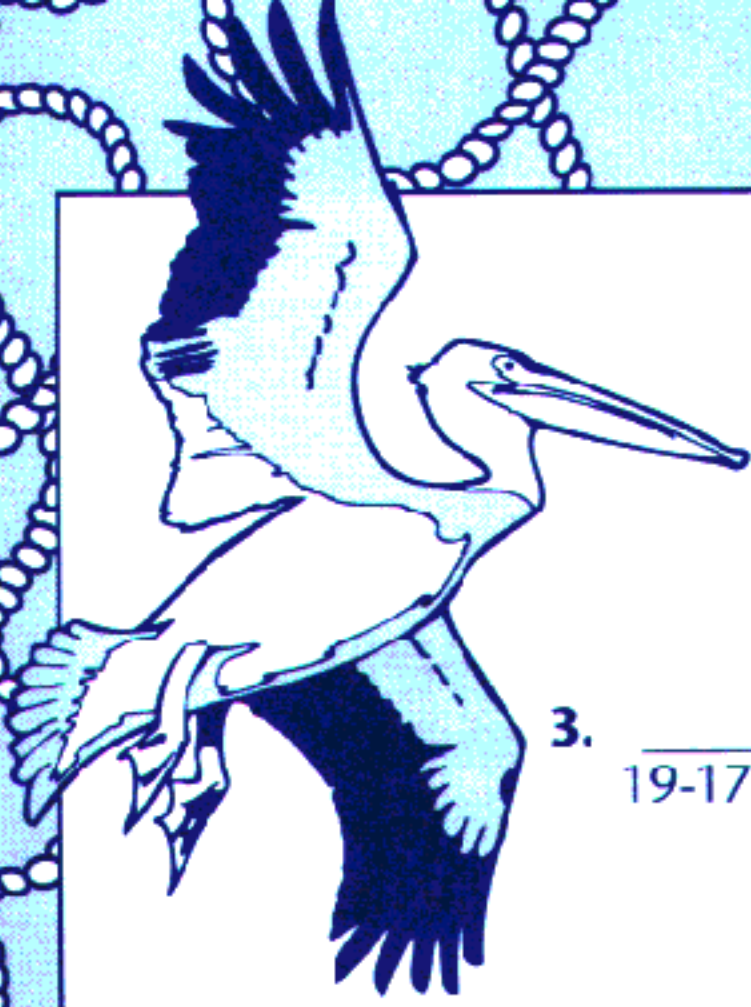
2. $\frac{12 + 7}{18 + 5}$ $\frac{6 + 3}{7 + 6}$ $\frac{5 + 8}{3 + 2}$ $\frac{9 + 9}{}$



CODES: A=1, B=2, C=3, D=4, E=5, F=6, G=7, H=8,
I=9, J=10, K=11, L=12, M=13, N=14, O=15, P=16,
Q=17, R=18, S=19, T=20, U=21, V=22, W=23,
X=24, Y=25 Z=26

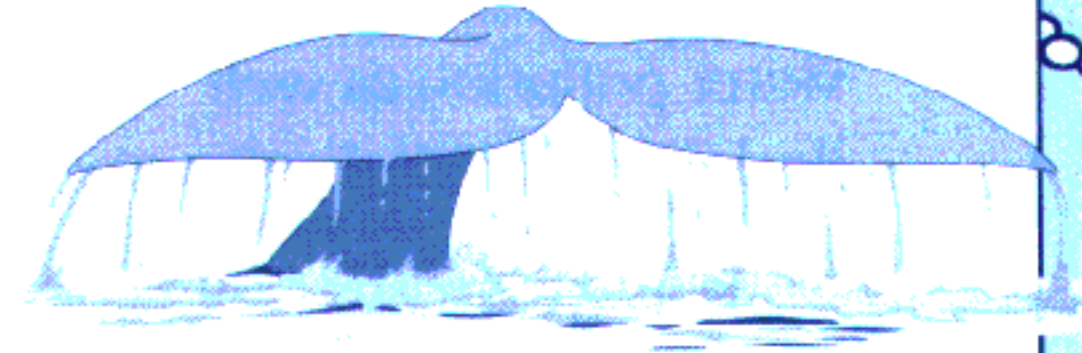


Marine Debris is Trouble for ME!



3. $\overline{19-17}$ $\overline{5+4}$ $\overline{11+7}$ $\overline{2 \times 2}$

7. $\overline{13+10}$ $\overline{4 \times 2}$ $\overline{19-18}$ $\overline{6 \times 2}$ $\overline{3+2}$



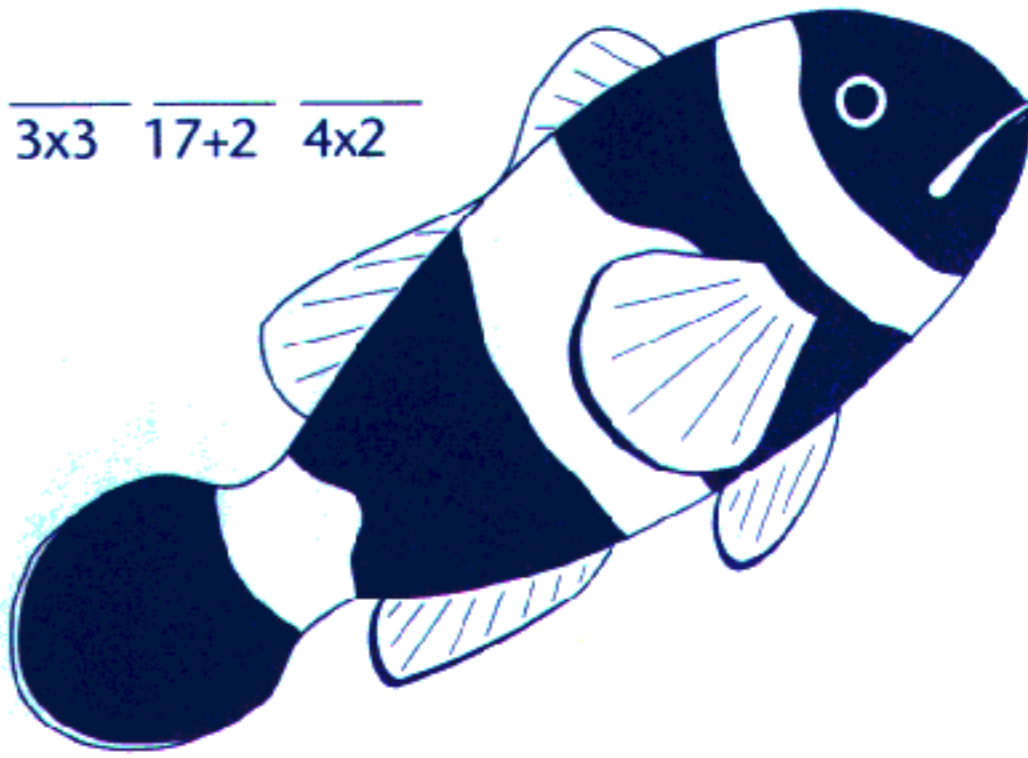
4. $\overline{3+10}$ $\overline{13-12}$ $\overline{6 \times 3}$ $\overline{3 \times 3}$ $\overline{7 \times 2}$ $\overline{9-8}$

$\overline{5 \times 3}$ $\overline{8 \times 2}$ $\overline{4+1}$ $\overline{13+5}$ $\overline{21-20}$ $\overline{18+2}$ $\overline{12+3}$ $\overline{12+6}$

8. $\overline{27-25}$ $\overline{12+3}$ $\overline{10-9}$ $\overline{13+7}$

$\overline{22-19}$ $\overline{15-14}$ $\overline{20-4}$ $\overline{19+1}$ $\overline{42-41}$ $\overline{19-10}$ $\overline{7 \times 2}$

5. $\overline{3 \times 2}$ $\overline{3 \times 3}$ $\overline{17+2}$ $\overline{4 \times 2}$

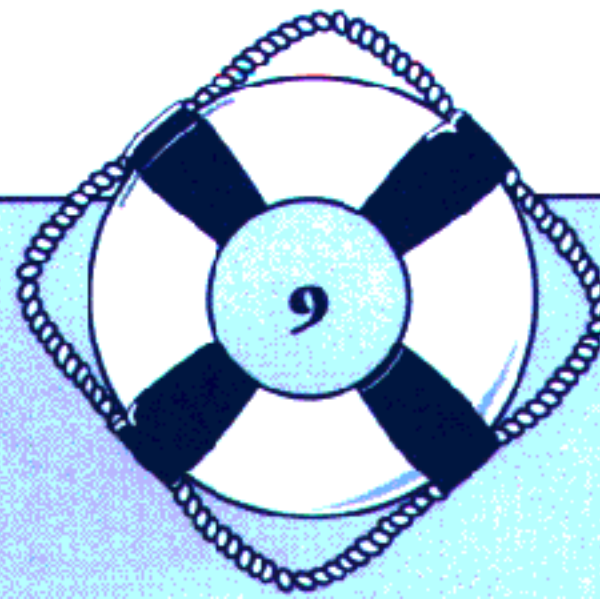
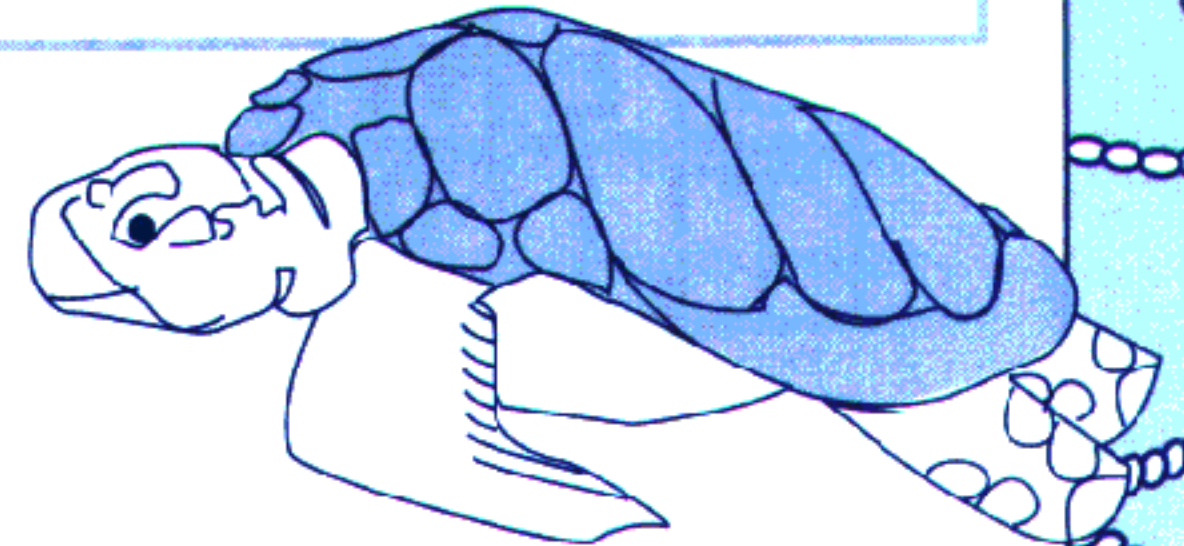


6. $\overline{4 \times 2}$ $\overline{3 \times 5}$ $\overline{5 \times 4}$ $\overline{3+2}$ $\overline{3 \times 4}$

$\overline{5 \times 3}$ $\overline{17+6}$ $\overline{7 \times 2}$ $\overline{4+1}$ $\overline{3 \times 6}$

9. $\overline{12+7}$ $\overline{20-15}$ $\overline{31-30}$

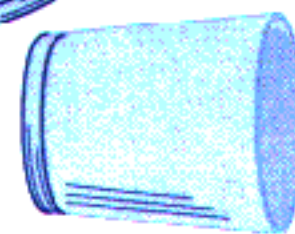
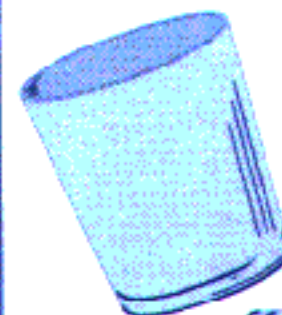
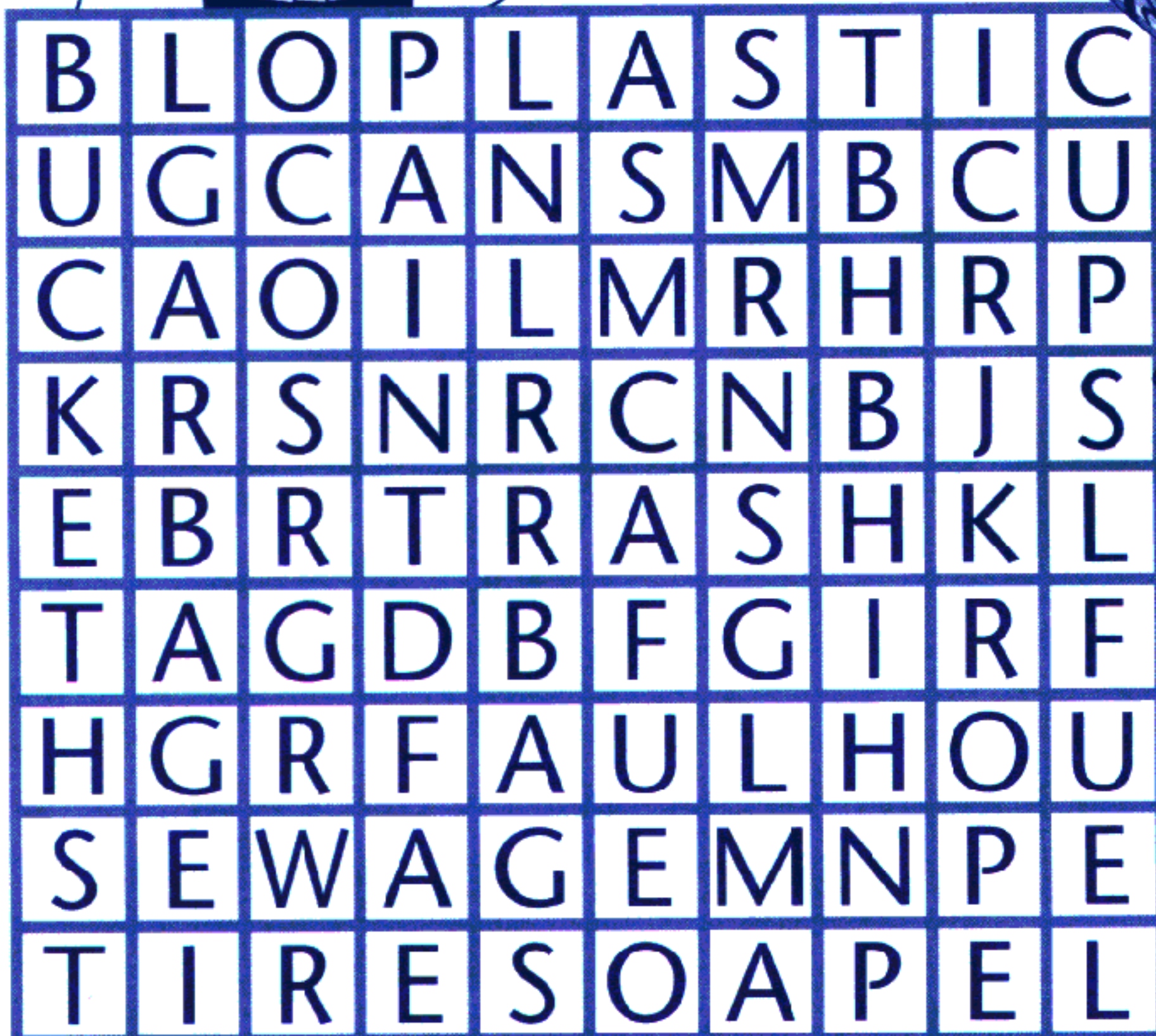
$\overline{13+7}$ $\overline{7 \times 3}$ $\overline{6 \times 3}$ $\overline{10+10}$ $\overline{3 \times 4}$ $\overline{25-20}$



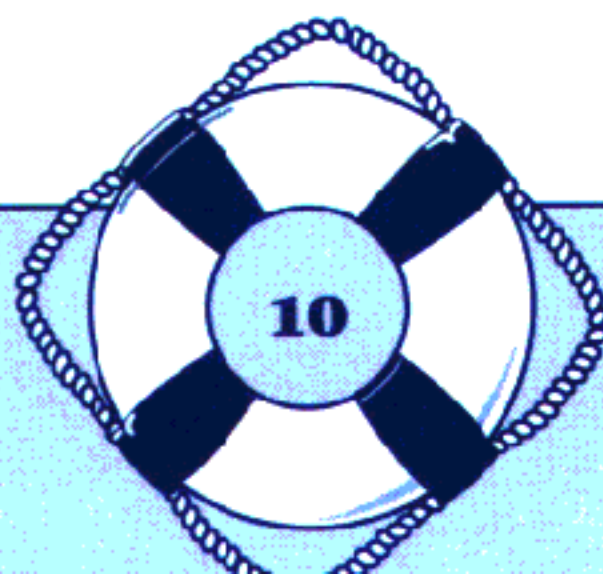
ACTIVITY 8

Looking for Pollution

Captain Cleanwater wants you to know that clean boating means clean water and beaches. Sadly, some people on boats dispose of oil, chemicals like anti-freeze, paint, detergents, trash, and sewage into the water. It is important to know other kinds of water pollution as well. Go on the word search below and help Captain Cleanwater find different kinds of water pollution. Can you find all fourteen words?



WHAT TO LOOK FOR:
garbage, plastic, paint,
cans, bucket, oil, trash,
sewage, soap, tires,
bags, fuel, cups, rope



ACTIVITY 9

Captain Cleanwater to the Rescue!

Captain Cleanwater has been at the marina all weekend. Complete the math problems below. Next, fill in the TOTAL WEEKEND POLLUTION CHART below by recording what happened. Put a star ★ by the sentences that describe clean boating.

1. Sunday night, people from six boats dump three bags of trash per boat. How many bags of trash were dumped? _____

2. You see fifteen people throw three cans each into the water. How many cans were thrown into the water? _____

3. Seven people each accidentally spill about two cups of oil at the marina while refueling their boat. How many cups of oil were spilled? _____

4. A ship's crew unloads six bags full of cans to be recycled. Each bag contains ten cans. How many cans will be recycled? _____

5. On Sunday, eight people toss three glass bottles per person into the lake. How many glass bottles in all were tossed into the water? _____

6. At the dock, you see twelve women returning from a fishing tournament bringing back two bags of trash per person. How many bags of trash were returned? _____

7. You watch eleven boaters recycle two quarts of oil per person at the marina. How many total quarts of oil were recycled? _____

8. On a hot Saturday afternoon you see six kids remove three plastic ice bags that they see floating near the dock. How many plastic ice bags were removed? Don't get tricked! _____

9. Five kids collect twenty plastic straws each from the parking lot of the marina. How many plastic straws were collected? _____

10. Five fishermen each return two glass bottles to the marina to be recycled. How many glass bottles were recycled? _____



Total Weekend Pollution Chart

POLLUTION TROUBLE SPOTS

Total Trash Bags Dumped _____
Total Cans Dumped _____
Total Cups Of Oil Spilled _____
Total Glass Bottles Tossed _____

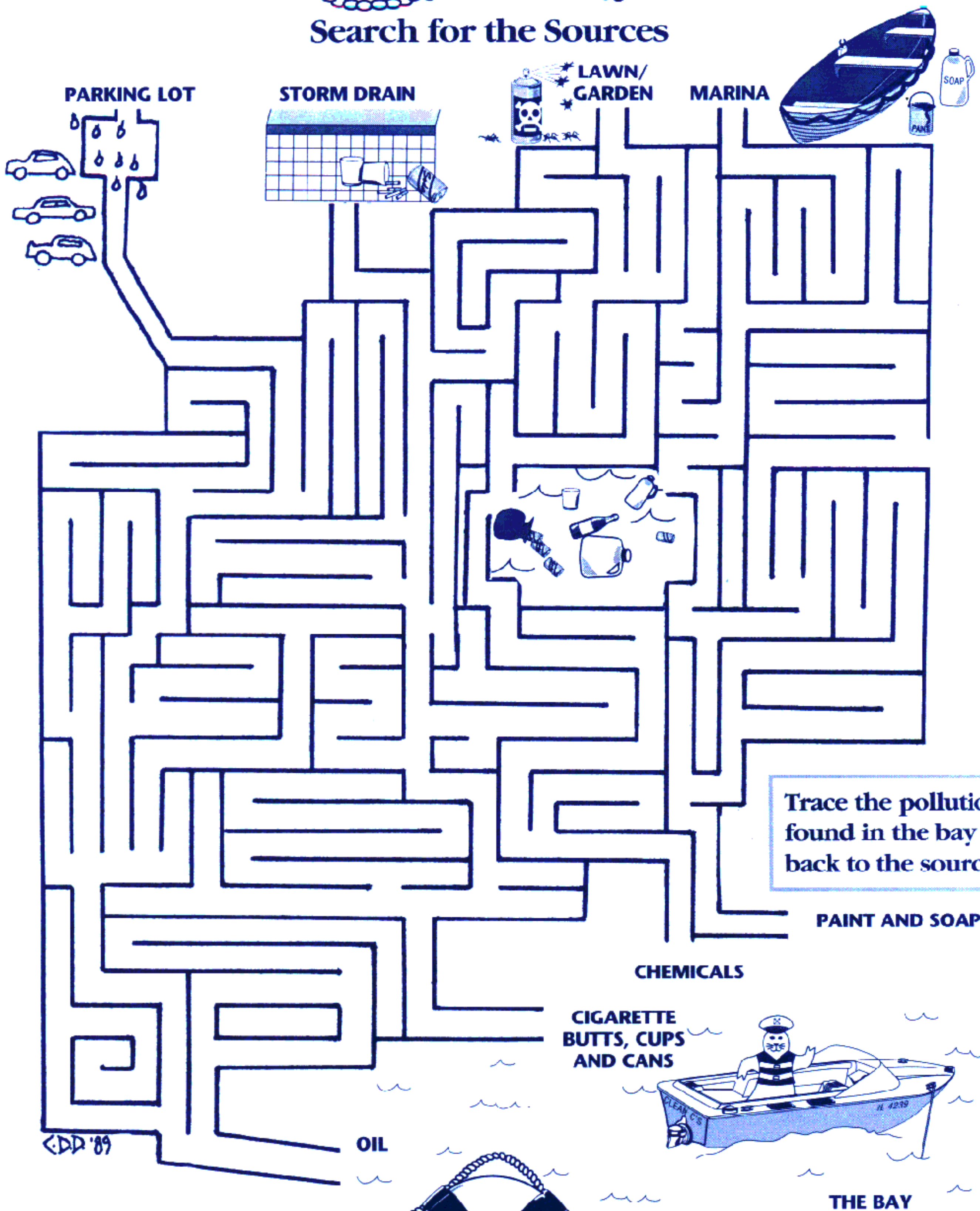
CLEAN BOATERS COUNT ★

Total Trash Bags Returned _____
Total Quarts Of Oil Recycled _____
Total Plastic Ice Bags Removed _____
Total Glass Bottles Recycled _____
Total Straws Collected _____
Total Cans Recycled _____

1=18, 2=45, 3=14, 4=60, 5=24, 6=24, 7=22, 8=3, 9=100, 10=10

ACTIVITY 10

Search for the Sources



CAPTAIN CLEANWATER'S REPORT FORM

Now that you have completed this activity book you know that there are many ways you can help to stop water pollution. People on land and on boats can be part of the pollution solution by reporting pollution that they see.

If you see someone dumping trash or sewage or spilling oil into the water, Captain Cleanwater suggests that you report it to the Coast Guard.

When you file a pollution report form like the one below you must have information that will assist the Coast Guard in finding the polluter. Many people also take video footage or photographs of what they see. This kind of reporting is very helpful. Ask an adult to help you collect the proper information and make the phone call. If you do not want to give your name when you file a report, you do not have to.

Remember, some liquid spills can be dangerous chemicals. Do not go near the pollution, or try to clean it up yourself. Use good sense when picking up litter. Be careful with broken glass and other trash.



What did you see?

1. Who is polluting? Do you have any of the following information?

- a. a person's name _____
- b. a company name _____
- c. the boat or ship name _____
- d. the marina name _____
- e. I have no information of this kind. _____

2. If it is a boat or ship:

- a. boat or ship name _____
- b. boat or ship number _____
- c. size _____
- d. color _____
- e. type _____

3. Did you notice anyone cleaning up the pollution?

4. What kind of pollution did you see?

- a. litter/trash dumping _____
- b. sewage _____
- c. oil/chemical _____

5. Did you report the incident to anyone else? Who?

6. Did you notice if anyone was hurt or injured?

7. List any other important details that you noticed about the pollution.

To report pollution incidents, call:

1-800-424-8802

U.S. Coast Guard National Response Center

CERTIFICATE OF COMPLETION

This certifies that _____ has completed the Captain
(your name)

Cleanwater Activity Book, and will work to protect lakes, rivers,
streams, the ocean, and boat passengers from harm.

Congratulations! You have successfully sailed through this
educational project. Remember, clean water depends on YOU!



Draw a picture of you and a friend enjoying a day on a boat.

