Before you start, make sure your child has a basic understanding of weight and has noticed the numbers on the fish. This level focuses on building your child's knowledge of weight improving their number recognition skills, and developing their counting skills.

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GOT THE HANG OF IT? SWITCH IT UP!

Place a big fish on one tray, point out its number, and ask your child how many small fish should go on the other tray. As your child places the small fish on the tray, ask them to count aloud.
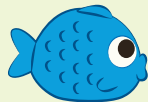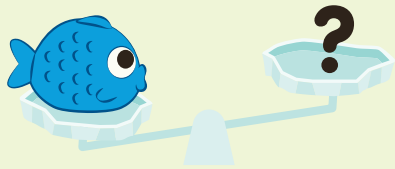
2 = 🐟🐟

3 = 🐟🐟🐟
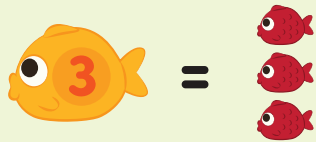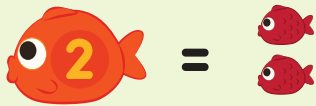
GAMEPLAY

Place a big fish on a tray and turn it around so the number isn't visible. Then, have your kiddo guess how many small fish should go on the other tray.
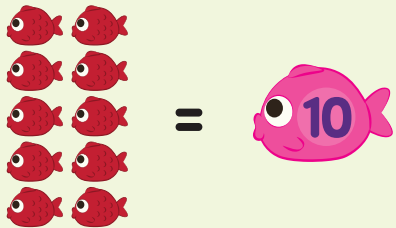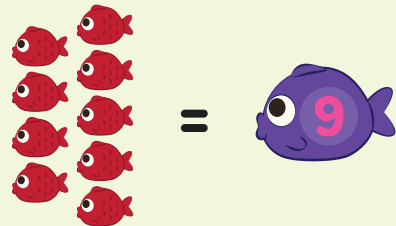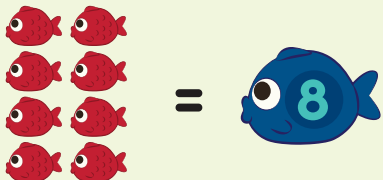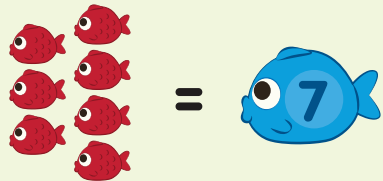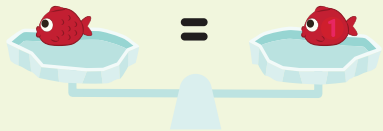
7

FRONT   BACK

?

LEVEL 1

PLAYBOOK

🐟 LEVEL 1

Let's find out how heavy these fish are!
Recreate these patterns on your scale with small fish on one tray, and a big fish on the other.
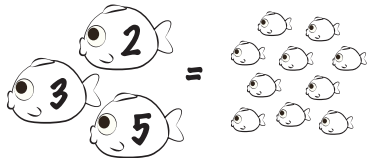
LEVEL 2

LEARNING GOALS

To set your child up for success, complete Level 1 and make sure they're familiar with the numbers on the fish before starting. This level will introduce them to basic arithmetic and aims to deepen their understanding of weight.

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GONE THROUGH ALL THE PATTERNS?

Try building your own! Draw out different patterns on a piece of paper and have your kiddo recreate them.

4 = 5

3 2 = 5

GAMEPLAY

How many ways can you keep the scale balanced? Place a combination of fish on one tray, then find different fish combinations of equal weight to place on the other tray. Try to find as many combinations as you can!
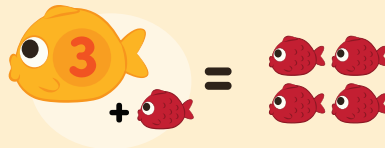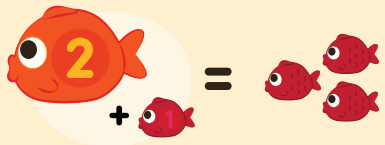
10 → 4 6

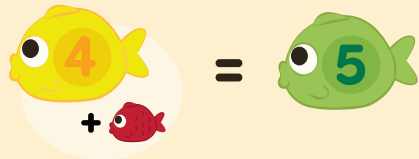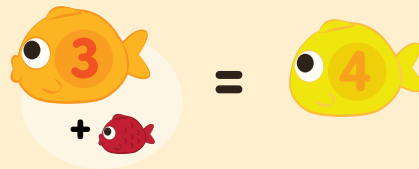→ 2 3 5

→ 2 8
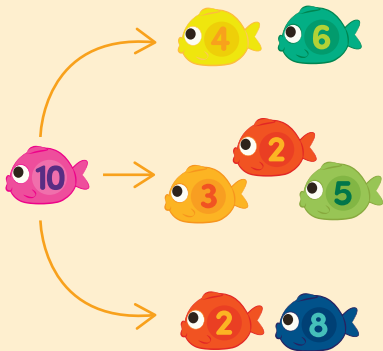
LEVEL 2
PLAYBOOK

🐟🐟 **LEVEL 2**

These friendly fish love swimming with friends! Recreate these patterns on your scale and explain to your child that the two trays are balanced because they're the same weight.
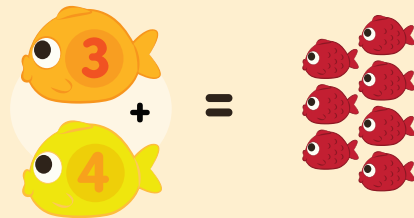
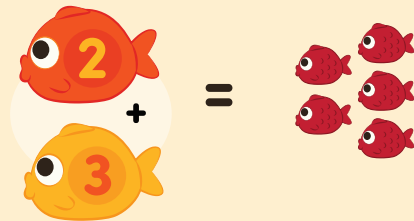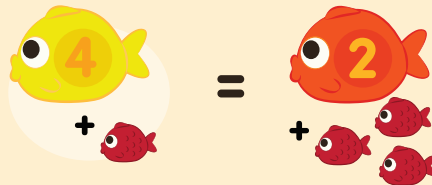**1 BIG FISH + 1 SMALL FISH — BALANCE — SMALL FISH**

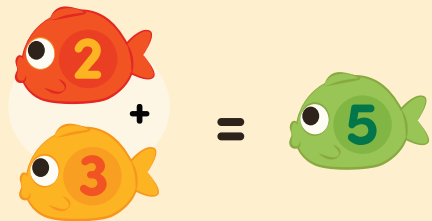**1 BIG FISH + 1 SMALL FISH — BALANCE — 1 BIG FISH**

2 BIG FISH — BALANCE — SMALL FISH

1 BIG FISH + 1 SMALL FISH — BALANCE — 1 BIG FISH + SMALL FISH

**2 BIG FISH — BALANCE — 1 BIG FISH**

LEARNING GOALS

Complete levels 1 and 2 before starting this level—your child will need to apply their number recognition skills and knowledge of weight here. This level aims to develop their memory skills and teach them more advanced arithmetic.

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GAMEPLAY

Place the squid, starfish, 1 small fish, and 1 big fish on a tray. Find a combination of fish of equal weight and place it on the other tray—how many different combinations can you find?

$$🦑 + ⭐ + 🐟 + 🐠_2 = ?$$
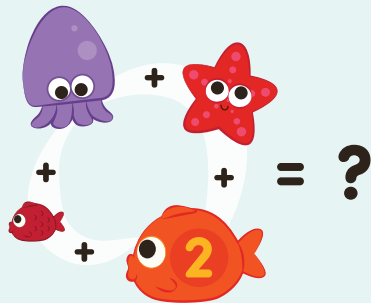
Place the squid on one tray and the starfish on the other. Balance the scale by adding fish to the trays.

$$🦑 + ? = ⭐ + ?$$
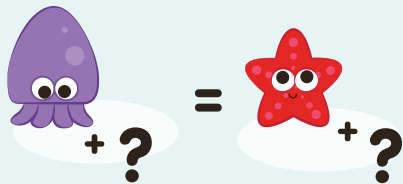
Place both the starfish and squid on one tray. How will you balance the scale?

$$🦑 ⭐ \quad ?$$
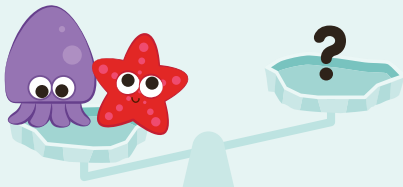
LEVEL 3
PLAYBOOK

🐟🐟 LEVEL 3

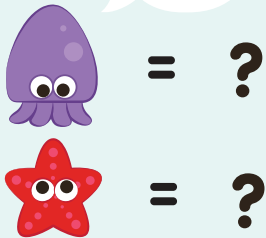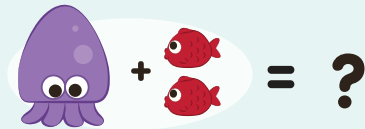**No one in the ocean knows how much the starfish and squid weigh!** Place the squid on one tray, then put as many small fish as you need on the other tray to make it balanced. Do the same with the starfish, then try to solve the other equations!

Can you find out?

= **?**

= **?**

How many small fish will you need to balance...

THE SQUID + **2 SMALL FISH?**

= **?**

THE STARFISH + **3 SMALL FISH?**

= **?**
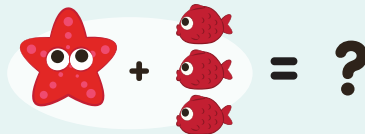
THE SQUID + **1 BIG FISH?**

= **?**

THE STARFISH + **1 BIG FISH?**

= **?**

THE SQUID + **1 BIG FISH** + **1 SMALL FISH?**

= **?**
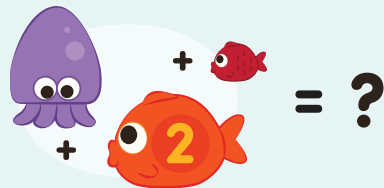
THE STARFISH + **1 BIG FISH** + **1 SMALL FISH?**

= **?**
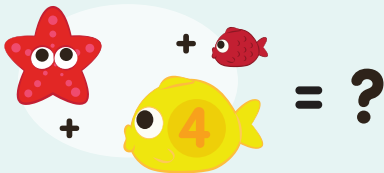
These activities will help your child gain a basic understanding of numbers and weight, preparing them for the activities in the playbooks!

They'll need to be familiar with these concepts in order to achieve the learning goals of each level.

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SCAN ME
for a video demonstration and more play ideas!

PENGUIN MATH BALANCE

PLAY GUIDE

FREE PLAY

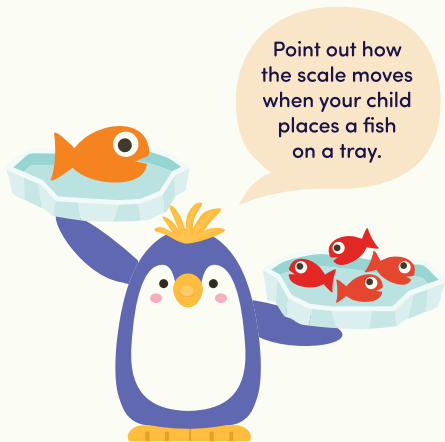Encourage your child to explore the fish and scale as they please. There are so many ways to play—try stacking, sorting, or weighing the fish on the scale!

Point out how the scale moves when your child places a fish on a tray.

INTERACTIVE PLAY

Point out the numbers on the fish as your child plays.

Ask your child to put the little red fish on the scale's trays. Count the fish as they go!

Put a heavier fish on one tray and a lighter fish on the other, then point out their numbers. This will demonstrate what "heavier" and "lighter" mean!

GAMEPLAY

Is an apple or banana heavier? Try using this toy with household objects!

Give your child two objects, ask them to hold one in each hand, then guess which is heavier. Once they've guessed, ask them to put the objects on the scale to find out if they were right!

Place an object on one of the scale's trays. Ask your child to find a combination of fish to balance the scale.