

Learning Objective:

To use systematic and logical methods to solve correspondence problems.

Let's play a game!

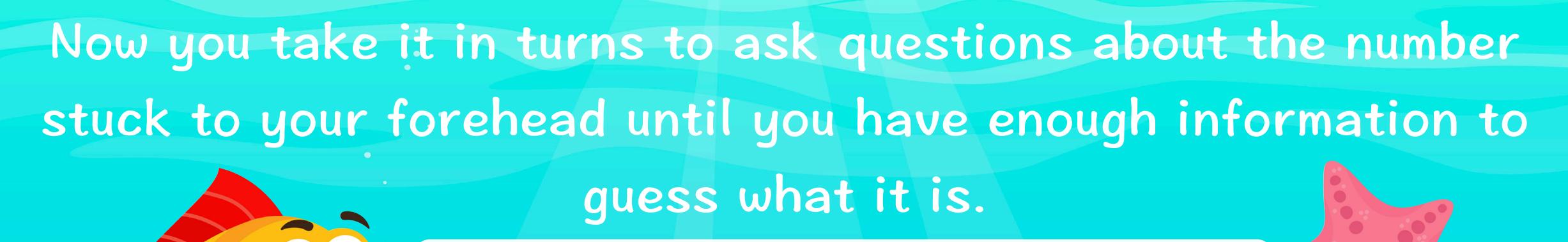


You play this game with a partner.

Write a number between 1 and 100 on your sticky note.

Stick your number to your partner's forehead.

Don't let your partner see the number you've written! They have to guess it.

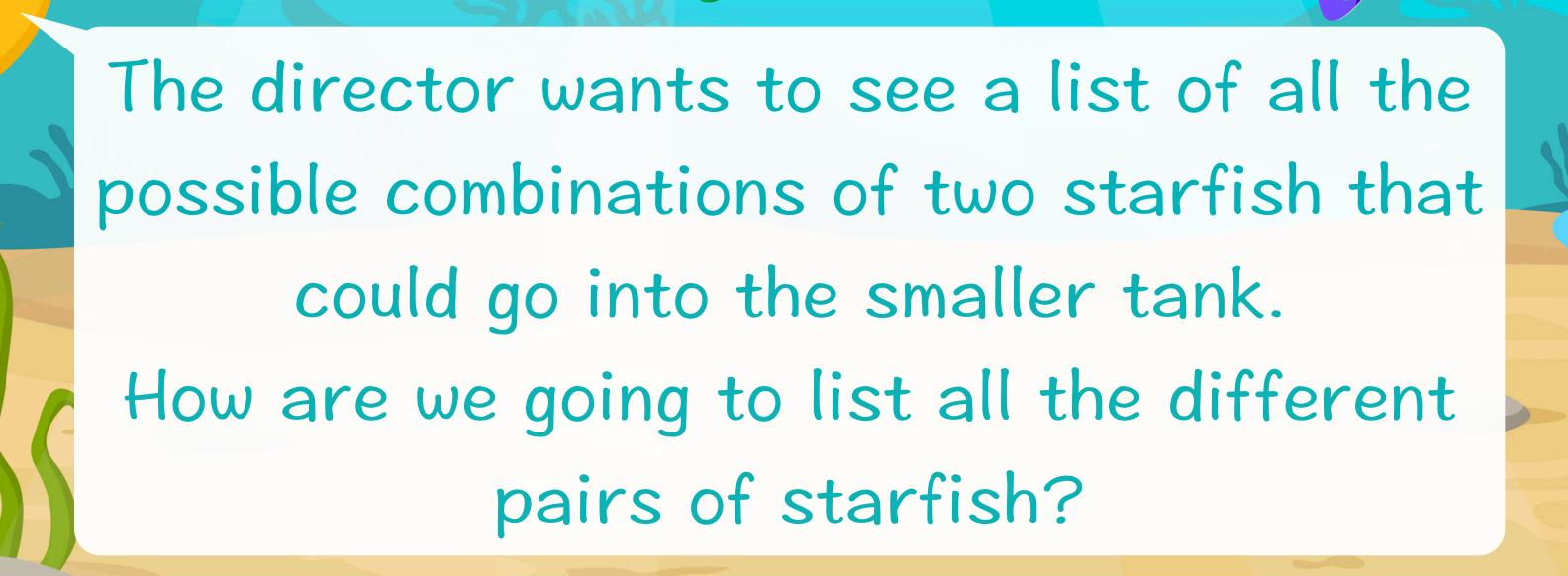


So you could ask: 'Is the number an odd number?'

Your partner is only allowed to answer yes or no to your question.

Challenge: Can you ask questions using the word: multiple?





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Think systematically. This means to have a plan for your thinking, rather than choosing random pairs.

Choose one starfish and find all the possible pairs you can make with that starfish.



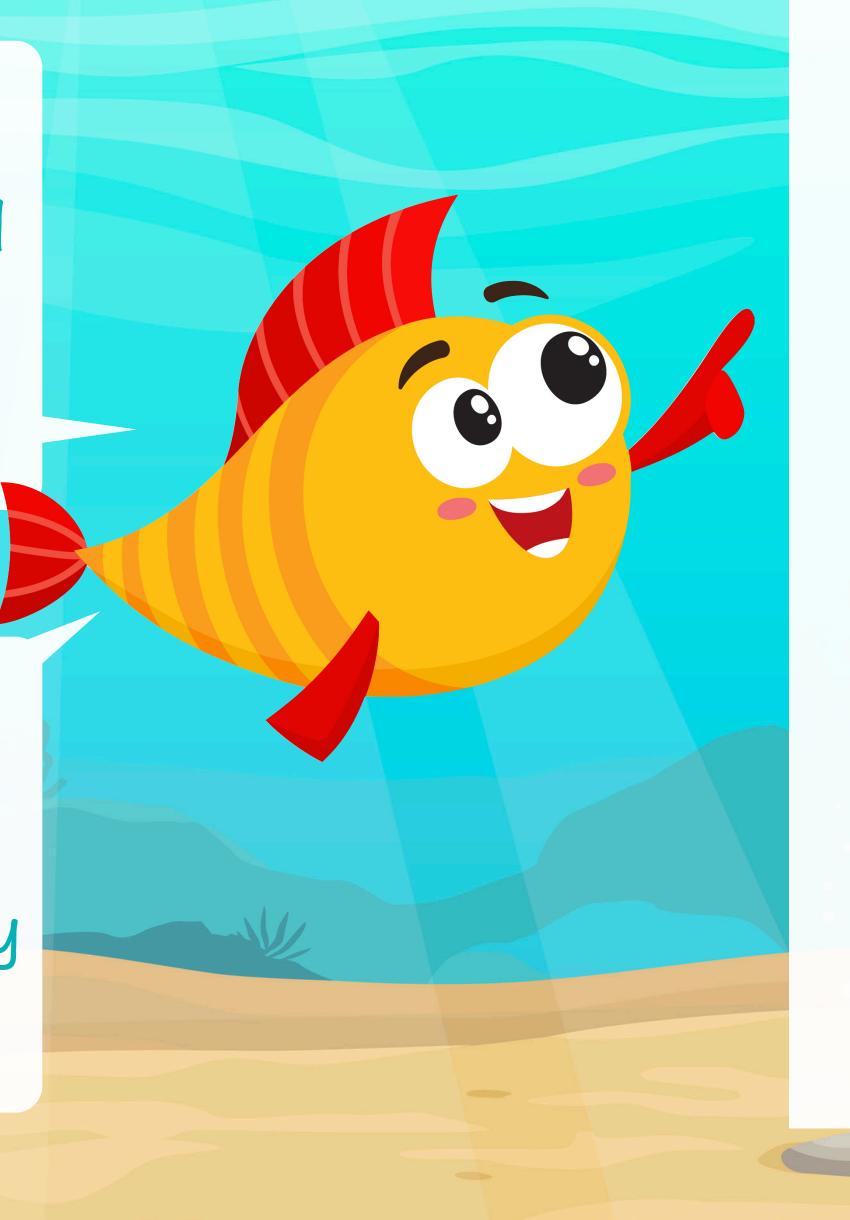
Here's my list so far.

Can you see how I've found all the pairs including the orange starfish?





would not be included on my list now.







This pair is a repeat of a pair I already have. They're just in a different order.



Next

We still haven't found all of the possible combinations of starfish.

What would you do next?
Remember to think
systematically!



Now I've done the same with a new starfish. This time I needed to check for any repeated pairs and rub them off my list.

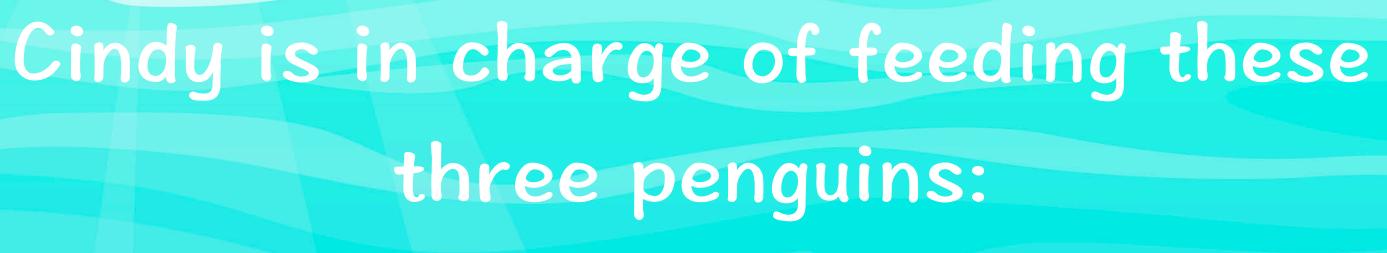




them.







Beaky, Flippers and Pebbles.

Sometimes the penguins become upset if the same penguin always gets fed first, or if they always get fed last.

Next

Could you help Cindy figure out all the different orders you could feed these penguins in?

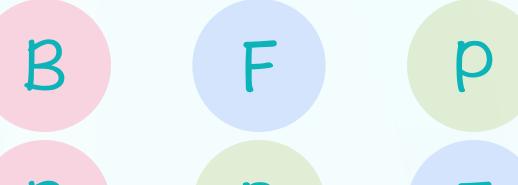
Remember: think systematically!





Beaky, Flippers and Pebbles

Let's find out all the different combinations where Beaky gets fed first.



3 P F

Can you figure out the rest on your own?



Did you find the six different orders they could be fed in?

That looks much fairer to me!



Beaky, Flippers and Pebbles

B F P

B P F

F B P

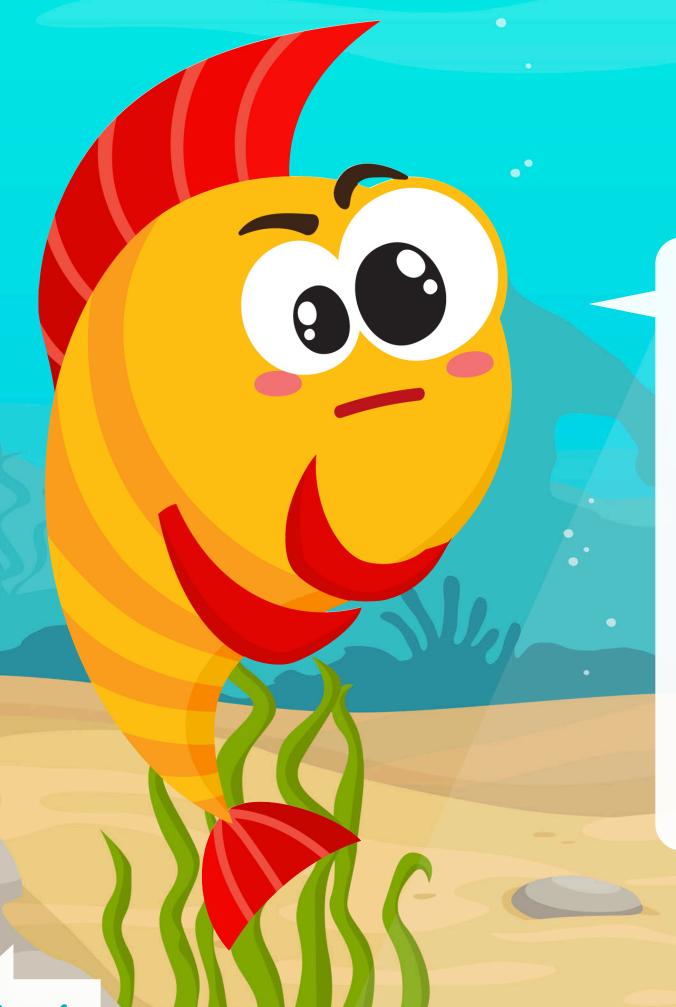
F P B

P B F

P F B



The director of the aquarium wants to make sure there are at least ten different drink options visitors can order from the café.



Are there ten different drink options on this menu?

All drinks can be ordered in small, medium or large sizes.

Tea Coffee Hot Chocolate

Back

The director of the aquarium wants to make sure there are at least ten different drink options visitors can order from the café.



Oh no! There are only nine options.

Looks like the menu needs changing.

Small tea Small coffee Small hot chocolate Medium tea Medium coffee Medium hot chocolate Large tea Large coffee Large hot chocolate

All drinks can be ordered in small, medium or large sizes.

Tea Coffee Hot Chocolate



Plenary

Now that you've become experts in solving this kind of problem, what are some top tips you would give someone who is less confident?

