Arrr. This be as far as I can take you.

I’ll be tendin’ to me ship, but I’ll be here when you get back.

Have fun!

You guys go on ahead. Professor Grok is waiting for you on the dock.

Aren’t you coming with us?

Professor Grok! How did you get here?

I rode my armadactyl.

Inconceivable!

Do you know how to get to the Math Bowl?

No, but I’m sure we’ll be able to find it just by asking some of the locals.

There’s just one problem.

What’s that?

Some of the monsters on this island **always** tell the truth, but the rest **always** lie.
How can you tell the liars from the truth-tellers?

You ask them questions.

Pardon me. Are you a liar?

No.

See, Winnie. That was easy!

Grogg!

Whether he is a liar or a truth-teller, his answer will always be “No.”

If he’s a liar, he’ll lie and say he’s not a liar.

And if he’s a truth-teller, he’ll tell the truth and say he’s not a liar.

So, we don’t know if he was lying, or telling the truth.

Oh, right. I guess we need to ask a different question.

I’ve got one!

How many arms do I have?

7.
Great, now we know he’s a liar.

Actually, since we know he’s a liar, we can figure out which of these three paths leads to the Math Bowl...

We can keep asking islanders how many arms Alex has until we find a truth-teller who can give us directions.

...if we ask him the right question.

I have an idea.

Actually, since we know he’s a liar, we can figure out which of these three paths leads to the Math Bowl...

...if we ask him the right question.

Actually, since we know he’s a liar, we can figure out which of these three paths leads to the Math Bowl...

...if we ask him the right question.

I have an idea.

Which of these three paths will not take us to the Math Bowl?

That one.

So, the math bowl must be this way.

Let’s go!

We know he lied when he said that this path won’t take us to the Math Bowl.

Great thinking, Winnie!
Uh oh. Now which way do we go?

Let’s ask one of those monsters over there.

I wonder how many of them are liars.

For all we know, they might all be liars.

Let’s ask.

How many of you monsters are liars?

1. 2. 3. 4.

Well, that certainly clears things up.

How? They all gave different answers.

Precisely. That’s what makes it easy to know who’s lying and who is telling the truth.