# MATHS AND AGRICULUTRE STEM CHALLENGE 

A PIEFA MEMBERS COLLABORATION


FOR
YEAR 2

FRDC
FUN WITH FISHERIES

## TEACHER OVERVIEW

## FUN WITH FISHERIES <br> MULTIPLICATION AND DIVISION CHALLENGE

Year: Two

## Outcomes:

Recognise and represent multiplication as repeated addition, groups and arrays (ACMNA031).

Recognise and represent division as grouping into equal sets and solve simple problems using these representations (ACMNA032).

## Introduction:

In the following challenges, students will be solving multiplication and division problems with some of the fish and shellfish produced by fisheries and aquaculture.

## Task:

1. Show the 'introduction for students' on a projector or interactive whiteboard, reading the information as a class.
2. Explain that students will be solving multiplication and division problems involving fish and shellfish produced by fisheries and aquaculture.
3. Introduce the concept of division by sharing into equal groups.
4.Allow students to work independently to complete the division challenges.
4. Model solving multiplication number sentences using arrays.
5. Allow students to work independently to complete the multiplication challenges.
6. Model creating a multiplication or division number sentence using the pictures on page 3 .
7. Allow students to create their own multiplication or division number sentence by cutting and pasting the images.
8. Have students work in pairs to solve their partner's number sentences.

## Introduction:

Fisheries and aquaculture provide us with the fish, shellfish and other aquatic products we consume in our daily lives. Aquaculture is the special farming of fish or shellfish for food production. In Victoria, the key species of fisheries and aquaculture production are: abalone, southern rock lobster and barramundi. The Fisheries Research and Development Corporation helps to monitor and protect the health of the marine environment while providing us with all of the seafood we love.


## FUN WITH FISHERIES

Make these sets of super seafood into equal groups. Record the division number sentence to match.

Make 3 groups

1. Count the total number of sea creatures.
2. Circle the correct number of groups.
3. Count how many sea creatures in each group.
4. Record the number sentence.


$$
6 \div 3=2
$$

Make 4 groups


Make 3 groups


Make 6 groups


There are $\qquad$ all together.

There are $\qquad$ in each group. $\square$
$\square$ $=$ $\square$

There are $\qquad$ groups.

There are $\qquad$ all
together.
There are $\qquad$ in each group.


There are $\qquad$ groups.

There are $\qquad$ all together.

There are $\qquad$ in each
 group.

There are $\qquad$ groups.

There are $\qquad$ all together.

There are $\qquad$ in each group.
$\square$
$\square$ $=$


There are $\qquad$ groups.

## FUN WITH FISHERIES

Complete the number sentences to describe each of these aquatic arrays.

1. Count the number of rows.
2. Count how many sea creatures are in each row.
3. Skip count to find the total number.


There are $\qquad$ rows.

There are $\qquad$ in each row.


There are $\qquad$ all together.


There are $\qquad$ rows.

There are $\qquad$ in each row. $\square$ $x$


There are $\qquad$ all together.

There are $\qquad$ rows.


There are $\qquad$ in each row. $\square$
$\square$
$\square$

There are $\qquad$ all together.


There are $\qquad$ rows.
$\qquad$ each row. $\square$
$\square$
There are $\qquad$ all together.

Cut out the pictures to make your own division and multiplication number sentences. Find a partner to solve the challenges you create.

$\square$
$\square$


Barramundi


Barramundi


Barramundi


Barramundi


Barramundi

Barramundi



Barramundi


Barramundi


Barramundi



Southern Rock Lobster


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