## Marine turtles:

nesting

Student task







# Calculate the number of eggs an individual turtle will lay in her lifetime.

Thinking mathematically

Thinking scientifically

Thinking technologically

#### **TURTLE INQUIRY**



## QUESTION

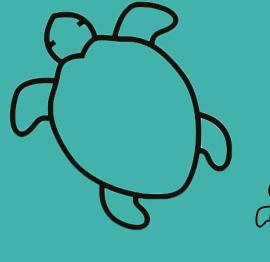
How many eggs might a female turtle lay in her lifetime?



## How many eggs might a female turtle lay in her lifetime?

Consider:

How many seasons
a female turtle nests
and lays eggs





The total number of eggs she lays in a season

#### TURTLE INQUIRY

#### Here are the factors scientists use

Age when mature (able to breed and lay eggs)

Number of eggs

per clutch
(average number
of eggs differs for
each turtle
species)

Number of clutches per season (turtles lay several times in a season)

Number of seasons the turtle breeds in a lifetime (turtles don't breed every season)

Age at which they no longer breed (old age)



#### Here is data for a leatherback female turtle

Current age: 50

Average number of eggs per clutch: 82

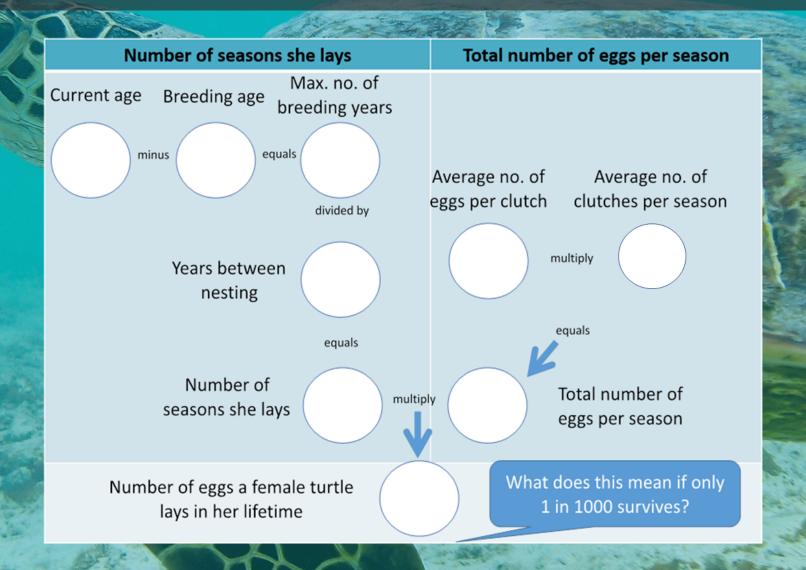
Average number of clutches per season:

6

Years between nesting

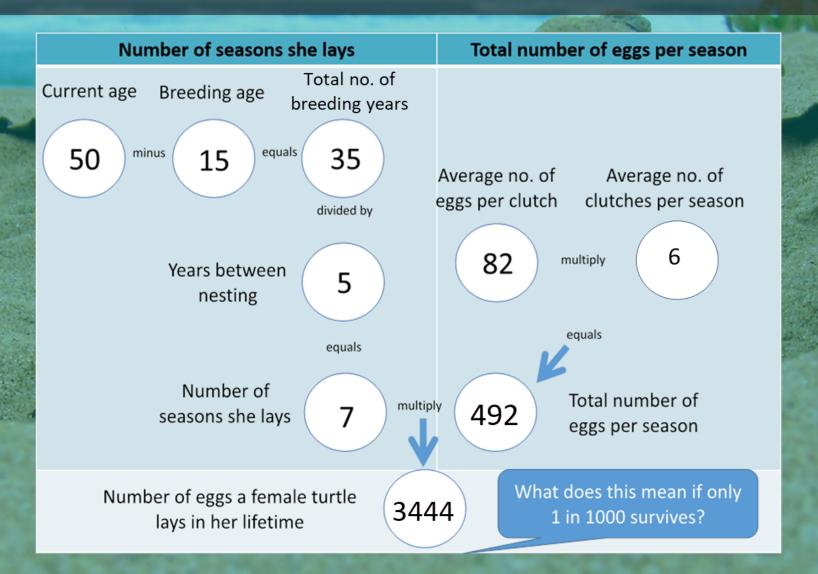
Breeding age 15

## Break down the calculation visually. Add the data for the leatherback turtle



#### TURTLE INQUIRY

## How many eggs does this female turtle lay in her lifetime?



### ACKNOWLEDGEMENTS This resource was developed through a collaboration between: Digital Technologies Hub, ESA PAWSEY Supercomputing Centre, WA The Western Australian Marine Science Institution (WAMSI) The Australian Data Science Education Institute Images: Thomas Shahan/Flickr, CC BY-NC 2.0 Jeroen Looyé/Flickr, CC BY-SA 2.0 Tchami/Flickr, CC BY-SA 2.0





