



Oyster Challenges

Equipment required

- Print out of the 'Oyster Challenges' worksheet, one per learner (2 pages)
- Pens or pencils
- Internet enabled devices and internet access

To complete the activity

1. Share the 'A history of the native oyster in Wales' presentation with learners - www.tiramor.cymru/nativeoysters (Resource 3).
2. Share the following link with learners and ask them to identify where native oysters can be found in Wales - www.tiramor.cymru/nativeoysters (Resource 4). Discuss the habitat conditions needed for native oysters to survive. Learners may wish to use The Wild Oyster Project fact sheet to support their research - www.tiramor.cymru/nativeoysters (Resource 5).
3. Provide each learner with the 'Oyster Challenges' worksheet.
4. Encourage learners to solve the challenges and to discuss their strategies and approaches with a partner.
5. Allow time for learners to reflect on the following and to create their own oyster-related question:
 - Which question did they find the most challenging? Why?
 - What new skills did they use or learn in this activity?

ANSWERS:

- | | |
|--|--|
| 1. $8 \times 12 = 96$ oysters | 7. $14 \times 6 = 84 \text{ m}^2$ (square metres) |
| 2. $2.5 \times 4 = 10$ cm | 8. $72 / 8 = 9$ oysters |
| 3. $200 \times 6 \times 7 = 8400$ litres | 9. $0.40 \times 250 = 100$ oysters |
| 4. $250 \times 15 = 3750$ grams (or 3.75 kg) | 10. $100 / 20 = 5$; $5 \times 15 = 75$ minutes (1 hour 15 mins) |
| 5. $120 / 6 = 20$ oysters | 11. $12 \times 4 = 48$ |
| 6. $2(8 + 5) = 2(13) = 26$ metres | 12. 25, 36 (squares of numbers) |

Oyster Challenges



1. Counting Oysters

A reef has 8 rows of oyster beds, and each row contains 12 oysters. How many oysters are there in total?

Answer: _____

2. Growth Rate

An oyster grows 2.5cm each year. How many centimetres will it grow in 4 years?

Answer: _____

3. Filtration Power

An oyster can filter 200 litres of water per day. How much water can 6 oysters filter in a week?

Answer: _____

4. Weight Calculation

If one oyster weighs 250 grams, what is the total weight of 15 oysters?

Answer: _____

5. Volume Problem

A tank holds 120 litres of water. If each oyster needs 6 litres of water to survive, how many oysters can live in the tank?

Answer: _____

6. Perimeter of Oyster Beds

An oyster bed is 8 meters long and 5 meters wide. What is its perimeter?

Answer: _____

7. Area of an Oyster Bed

An oyster bed is 14 meters long and 6 meters wide. Calculate the area of the oyster bed.

Answer: _____

8. Sharing Oysters

A fisherman collects 72 oysters and shares them equally among 8 friends. How many oysters does each friend receive?

Answer: _____

9. Percentage Problem

40% of an oyster reef has been damaged by pollution. If the reef originally had 250 oysters, how many oysters have been affected?

Answer: _____