



# Answers to Exercise TR9.1 & 9.2:

## QUESTION 1

Cartilaginous fish	Bony fish
✓ Cartilaginous skeleton	✓ Bone skeleton
✓ Presence of gill slits	✓ Presence of gills and of an operculum that covers them
✓ Internal fertilization	✓ External fertilization

## QUESTION 1

Cartilaginous fish	Bony fish
✓ Colour, shape and pattern of the body	✓ Colour, shape and pattern of the body
✓ Presence / absence of fins (anal, pelvic and dorsal)	✓ Colour and shape of fins
✓ Presence / absence of spines in dorsal fins	✓ Fins position relative to the body and the other fins
✓ Fins position relative to other fins	✓ Colour of caudal keel & finlets
✓ Gill number and teeth shape, etc.	✓ Etc.

## QUESTION 3

- ✓ bony fish: tuna, snapper, sardine, etc.
- ✓ cartilaginous fish: whale shark, white shark, manta-ray, etc.



## Answers to Exercise TR9.1 & 9.2



1 / 2 / 3 / 7 / 8 → BET - High stocky body; Head large and high; Big eyes; pectoral fin long, extending beyond the 2<sup>nd</sup> dorsal fin base

3 / 9 → YFT - pectoral fin short, extending to base of 2<sup>nd</sup> dorsal fin pectoral fin thick, blade-like

4 - BET - pectoral fin long, extending beyond the 2<sup>nd</sup> dorsal fin base

6 - YFT - body elongate, long tail, body outline flat between 2<sup>nd</sup> dorsal and caudal fin and between anal and caudal fin



## QUESTION 2

Identify the following fish species and list the 3 main characteristics that helped you with its identification (A, B, and C).

SKIPJACK - *Katsuwonus pelamis* SKJ

- A. Black horizontal stripes on the belly
- B. Blue on the back
- C. Silver on the sides

## QUESTION 3

Identify the following fish species and list the two main characteristics that helped you with its identification (A and B).

ALBACORE - *Thunnus alalunga* ALB

- 1. Edge of the caudal fin white or colourless unique to this species
- 2. Long pectoral fins that easily reach the base of the 2nd dorsal fin

## QUESTION 4

Identify the following fish species and list the main characteristics that helped you with their identification.

- 1. YELLOWFIN TUNA *Thunnus albacares* YFT
- 2. BIGEYE TUNA - *Thunnus obesus* BET





### QUESTION 5

Identify the following fish species and list the main characteristics that helped you with the identification.

BIGEYE TUNA - *Thunnus obesus* BET

### QUESTION 6

Identify Yellowfin and Bigeye Tunas in Fresh Condition using body markings.

1. YELLOWFIN TUNA *Thunnus albacares* YFT
2. BIGEYE TUNA - *Thunnus obesus* BET

### QUESTION 7

Identify the following fish species and list the main characteristics that helped you with their identification.

1. YELLOWFIN TUNA *Thunnus albacares* YFT
2. BIGEYE TUNA - *Thunnus obesus* BET

### QUESTION 8

Identify YFT and BET using pectoral fin length and characteristics

1. YELLOWFIN TUNA *Thunnus albacares* YFT
2. BIGEYE TUNA - *Thunnus obesus* BET

### QUESTION 9

Identify YFT and BET using pectoral fin length and characteristics.

1. BIGEYE TUNA - *Thunnus obesus* BET
2. YELLOWFIN TUNA *Thunnus albacares* YFT





### QUESTION 10

Identify YFT and BET using caudal fin characteristics

1. YELLOWFIN TUNA *Thunnus albacares* YFT
2. BIGEYE TUNA - *Thunnus obesus* BET

### QUESTION 11

Identify frozen YFT and BET

1. YELLOWFIN TUNA *Thunnus albacares* YFT
2. BIGEYE TUNA - *Thunnus obesus* BET

### QUESTION 12

Identify frozen tuna species mixed in purse-seine well.

1. YELLOWFIN TUNA *Thunnus albacares* YFT
2. BIGEYE TUNA - *Thunnus obesus* BET
3. YELLOWFIN TUNA *Thunnus albacares* YFT
4. BIGEYE TUNA - *Thunnus obesus* BET
5. BIGEYE TUNA - *Thunnus obesus* BET
6. YELLOWFIN TUNA *Thunnus albacares* YFT
7. BIGEYE TUNA - *Thunnus obesus* BET
8. YELLOWFIN TUNA *Thunnus albacares* YFT
9. BIGEYE TUNA - *Thunnus obesus* BET
10. BIGEYE TUNA - *Thunnus obesus* BET
11. BIGEYE TUNA - *Thunnus obesus* BET

