Teacher's Answer Key

Blue Salmon: 100% Fish | Fish Economy Worksheet

Grades 3–5

1. Order of steps: Fishers catch fish = 1, Plants clean, cut and package = 2, Stores and restaurants sell = 3, Customers buy = 4.

2. Matching: 1 Fillets = C, 2 Skin = A, 3 Heads and bones = D, 4 Roe = E, 5 Fish oil = B.

3. Word fun: waste, fillets, fine, limit.

4. Good reasons: A, C and D. (B is false: skin and bones can be made into leather, pet treats, fertilizer and more.)

5. Smart, fined or waste: 1 Smart, 2 Fined, 3 Waste, 4 Smart.

6. Why it matters: Answers vary. Environment: less waste, less pressure on wild fish, less need for other resources. Economy: more money per fish, new jobs and businesses, lower disposal costs.

7. Invent a product: Open-ended. Look for a named fish part, a sensible product and a possible buyer.

Grades 6–8

1. Order of steps: same as above (catch, process, sell, customers = 1, 2, 3, 4). **Open response:** a strong answer names processing, because that is where the choice between keeping only fillets and using the skin, heads, bones, roe and oil is made. Accept well-reasoned answers for other steps, such as customers creating demand.

2. Vocabulary: sustainable, value-added, full utilization, byproduct, fine, limit.

3. Matching: 1 Fillets = C, 2 Skin = A, 3 Heads and bones = D, 4 Roe = E, 5 Fish oil = B, 6 Trim = F. **Open response:** accept any product with reasoning about demand, effort to make, or price per pound.

4. Why it is rare: Accept any two: customers mostly want fillets; making products takes equipment and workers; remote towns face high shipping costs; leftovers were seen as trash and sold cheaply.

5. Smart, fined or waste: 1 Smart, 2 Fined, 3 Waste, 4 Smart. Explanations vary; look for ties to following limits, avoiding waste, or earning more from each fish.

6. Impacts: Two per column, drawn from the lesson. **Trade-off:** equipment costs, shipping from remote towns, or finding customers for new products.

7. Product pitch: Open-ended. Look for a named fish part and product, a realistic customer and price, and a link to sustainability or reduced waste.

Quick Reference: Fish Parts and Products

Fish part	Product	Letter
Fillets (the meat)	Smoked and canned salmon	C
Skin	Fish-skin wallets and boots	A
Heads and bones	Pet treats and garden fertilizer	D
Roe (eggs)	Caviar, a fancy topping	E
Fish oil	Omega-3 health capsules	B
Trim (grades 6–8 only)	Fish jerky and burgers	F

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