

What is Average Cost?

Worksheet

Average cost (AC) is total cost divided by total units: $AC = TC \div Q$. For example, if 100 units cost £1000 to produce, the average cost per unit is £10.

Questions

1. Total cost is £5000 for 200 units. What is average cost?
A) £25
B) £5000
C) £200
D) £1
2. AC typically falls at first because...
A) workers are cheaper
B) fixed costs are spread over more output
C) variable costs don't exist
D) prices are lower
3. A firm has £10,000 in fixed costs and £2 variable cost per unit. At 2000 units, what is AC?
A) £5
B) £7
C) £12
D) £2
4. What does a U-shaped AC curve tell us?
A) The firm is failing
B) Economies of scale early, diseconomies late
C) Costs never change
D) Production is always rising
5. A bakery's total monthly cost is £3000, producing 300 loaves. What is the average cost per loaf?
6. A factory produces 1000 units annually at a total cost of £25,000. Calculate average cost.
7. A startup incurs £50,000 in fixed costs plus £5 per unit. At 2000 units, what is AC?
8. Define: What is average cost?
9. Define: Why does AC fall with larger production?
10. Define: Can AC rise even as production grows?

Answer Key

1. A) £25 — $AC = \text{Total cost} \div \text{Quantity} = £5000 \div 200 = £25$ per unit.
2. B) fixed costs are spread over more output — Rent, machinery, and other fixed costs are divided by more units.
3. B) £7 — $\text{Total cost} = £10,000 + (£2 \times 2000) = £14,000$; $AC = £14,000 \div 2000 = £7$ per unit.
4. B) Economies of scale early, diseconomies late — Spreading fixed costs → AC falls.
Congestion/resource limits → AC rises.
5. $\text{Total cost} = £3000$ Total units = 300 loaves $AC = £3000 \div 300 = £10$ per loaf
6. $\text{Total cost} = £25,000$ Total units = 1000 $AC = £25,000 \div 1000 = £25$ per unit
7. $\text{Total cost} = £50,000 + (£5 \times 2000) = £50,000 + £10,000 = £60,000$ $AC = £60,000 \div 2000 = £30$ per unit
8. Total production cost divided by total units: $AC = TC \div Q$.
9. Fixed costs (rent, machinery) are spread over more units, so the per-unit burden shrinks.
10. Yes, if variable costs (labour, materials) rise faster than fixed costs decrease.

Bounlu

All cards, step-by-step solutions and an AI tutor are in the Notek app.
Promy turns exam dates into automatic reminders.