Online Admission Test – Sample questions

1. Quantitative exercises

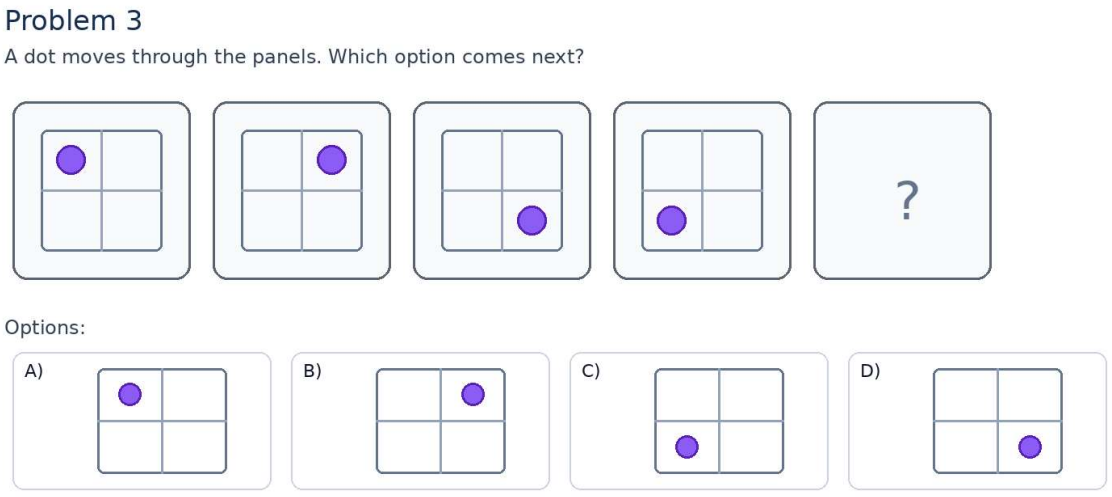
12 workers can assemble a product batch in 8 hours.
If 16 workers do the same work at the same productivity, how long will it take?

A. 5 hours
B. 6 hours
C. 7 hours
D. 8 hours

Answer: B. 6 hours

Explanation:
Work = workers × time
12 × 8 = 96 worker-hours
96 ÷ 16 = 6 hours

2. Logical reasoning/Figural problems



Correct answer	A
Estimated time	1 minute

Explanation: The dot moves clockwise through the four positions of the 2×2 grid: top left → top right → bottom right → bottom left. The next step returns to the top-left position.

3. Text analysis

Topic: Demographics and pension systems | Suggested time: 3 minutes

A pension system financed by current workers is under pressure as the population ages. Commentators sometimes describe the problem as a sudden collapse caused by people living longer. Demographers object that the issue has been developing for decades through two trends: rising life expectancy and lower birth rates. Because both trends change the ratio of workers to retirees, a system built for a younger population becomes harder to finance. The demographers therefore argue that the challenge is structural rather than temporary.

Which statement is best supported by the text?

A. The passage indicates that ageing pressures come only from increasing longevity, not from fertility trends.

B. The demographers see pension strain as a long-term change in population structure.

C. The text argues that pay-as-you-go pension systems become easier to finance as the share of retirees rises.

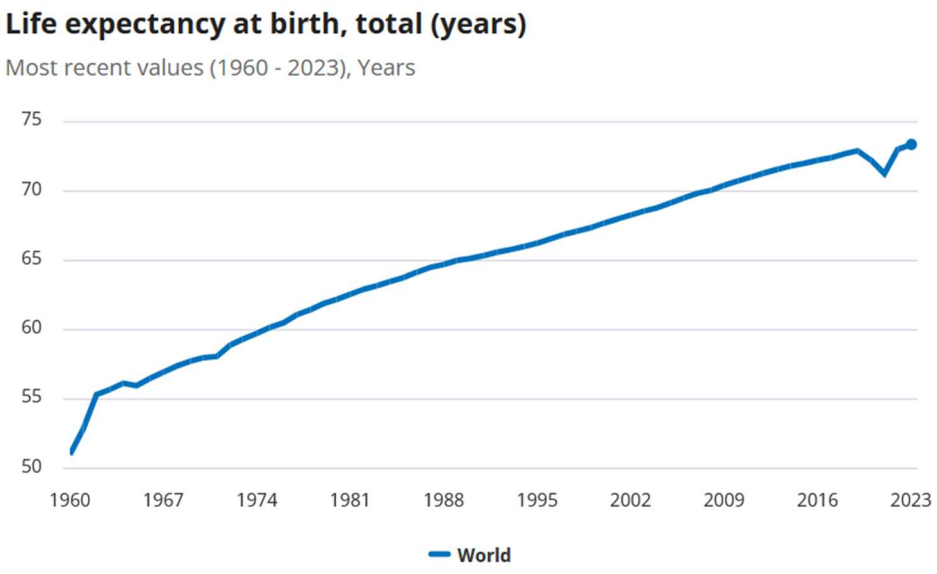
D. The commentators and the demographers agree that the problem is a short-lived shock.

Correct answer: B

Difficulty: Medium | Suggested time: 3 minutes

Explanation: The passage states that both longer lives and lower birth rates have altered the worker-to-retiree ratio over time. This is precisely a structural demographic change.

4. Graphs and Tables



Dataset: World Development Indicators (WDI)
Source: World Population Prospects, United Nations (UN); Statistical databases and publications from national statistical offices, National statistical offices; Demographic Statistics, Eurostat (ESTAT)

Approximately what was the global life expectancy at birth in 1960?

A. About 45 years
B. About 51 years
C. About 60 years
D. About 65 years

Answer: B. About 51 years

Which statement best describes the overall global trend in life expectancy between 1960 and 2023?

A. Life expectancy steadily decreased
B. Life expectancy remained almost unchanged
C. Life expectancy increased significantly overall
D. Life expectancy fluctuated without a clear trend

Answer: C. Life expectancy increased significantly overall

Around which year does the graph show a noticeable temporary decline in life expectancy before increasing again?

A. Around 1990
B. Around 2000
C. Around 2020
D. Around 1975

Answer: C. Around 2020

Explanation: Linked to the global COVID-19 pandemic.

True / False 1

Global life expectancy increased by more than 20 years between 1960 and 2023.

Answer: True

Explanation:
Start ≈ 51 years
End ≈ 73 years

Increase ≈ 22 years

True / False 2

Global life expectancy increased every single year without any decline between 1960 and 2023.

Answer: False

Explanation: There is a noticeable drop around 2020–2021.

True / False 3

By 2010, global life expectancy had already reached about 70 years.

Answer: True