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daily AR

SECTIONAL TEST

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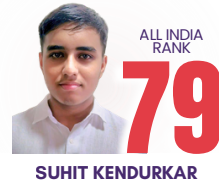


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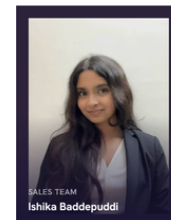
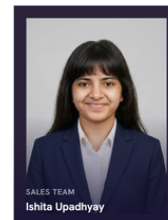
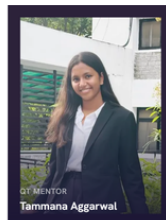
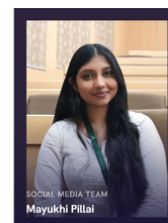
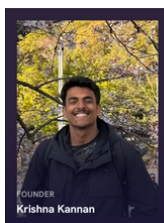
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MENTORS' NOTE

Good morning everyone,

If you're reading this, you're already doing something that thousands of CLAT aspirants never do—you've shown up today. That might sound like a small thing, but over the next few months you'll realise that success in CLAT is rarely decided by one brilliant mock or one 12-hour study session. It's decided by the hundreds of ordinary days where you choose to sit down and study even when you don't feel like it.

The entire CLAT Community team is rooting for you. Whenever you're stuck, ask doubts, discuss questions, and make use of the people around you. You don't have to prepare alone. We hope today's material helps you take one more step towards your dream.

Now stop reading this note and get to work. Your future self will thank you for the effort you put in today.

All the best.

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DAILY ANALYTICAL REASONING**SECTION — ANALYTICAL REASONING**

Passage 1 — Silverline Watch Restoration Studio

At Silverline Watch Restoration Studio, a valuable nineteenth-century wall clock is mounted permanently behind a sealed glass case and can only be examined by looking at its face in a plane mirror fixed on the opposite wall. The clock's escapement is worn, so it runs fast, gaining time at a constant but unknown rate. The studio's separate digital reference timer is accurate and is checked against the city time signal every single morning without fail. At 9:00 AM by the reference timer, the mirror image of the clock's face read 4:00. At 1:00 PM by the same reference timer, the mirror image read 11:00. No adjustment or repair of any kind was made to the antique clock between these two recorded readings.

Questions 1–6 are based on the passage above.

Q1. What was the clock's actual (unreflected) dial reading at 9:00 AM?

- (A) 7:00
- (B) 8:00
- (C) 4:00
- (D) 9:00

Q2. Both mirror readings are accurate. What is the clock's gain rate, in minutes gained per real hour?

- (A) Loses 15 minutes every hour
- (B) Loses 75 minutes every hour
- (C) Gains 20 minutes every hour
- (D) Gains 15 minutes every hour

Q3. Using the established rate, what will the mirror show at 3:00 PM the same day?

- (A) 8:30
- (B) 3:30
- (C) 9:00
- (D) 8:00

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Q4. Which one of the following facts, though true, is NOT needed to determine the clock's gain rate?

- (A) The 1:00 PM mirror reading (11:00)
- (B) The fact that no repair or adjustment was made to the clock between the two readings
- (C) The mirror's fixed distance from the clock, 1.4 metres
- (D) The 9:00 AM mirror reading (4:00)

Q5. Exactly one of the following statements is true. Which one?

- (A) The dial and the reference timer showed the same time at 9:00 AM
- (B) The raw dial figure at 1:00 PM ('1:00') means the clock was, at that moment, running behind where it stood at 9:00 AM
- (C) Between 9:00 AM and 1:00 PM, the mirror image value decreased by exactly 7 hours
- (D) At 11:00 AM, the mirror will show 1:30

Q6. Suppose, hypothetically, that the clock's fault had been twice as severe from the very start — gaining 30 minutes per hour instead of 15. What would the mirror have shown at 1:00 PM under this hypothetical?

- (A) 6:00
- (B) 10:00
- (C) 2:00
- (D) 11:30

Passage 2 — The Kulkarni Family's Insurance Form

The Kulkarni family is completing a health-insurance renewal form that requires the exact current age of every household member. The form lists grandmother Kaveri, her daughter Ela, and Ela's daughter Myra, plus baby Arav, who was born two years ago and is exempt from the age columns entirely. A family diary records two facts about the past: six years ago, the combined age of Ela and Myra was 56 years, and at that time Ela's age was exactly three times Myra's age. The diary separately notes that Kaveri was 26 years old at the moment Ela was born. The insurer also offers a loyalty discount whenever the combined current age of Ela and Myra is at least two and a half times the difference between their two current ages.

Questions 7–12 are based on the passage above.

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Q7. What is Ela's current age?

- (A) 48
- (B) 42
- (C) 20
- (D) 44

Q8. What is Kaveri's current age?

- (A) 26
- (B) 46
- (C) 74
- (D) 68

Q9. In how many years will Kaveri's age be exactly three times Myra's age?

- (A) 14
- (B) 9
- (C) 13
- (D) 7

Q10. How many years ago was Ela's age exactly five times Myra's age?

- (A) 10
- (B) 13
- (C) 7
- (D) 16

Q11. Which one of the following facts is NOT required to determine Kaveri's current age?

- (A) The six-years-ago combined-age total of Ela and Myra (56)
- (B) The six-years-ago ratio between Ela's and Myra's ages
- (C) The fact that Arav was born two years ago
- (D) The fact that Kaveri was 26 when Ela was born

Q12. Exactly one of the following statements is true. Which one?

- (A) Only Statement II
- (B) Only Statement I

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(C) Only Statement III

(D) Only Statement IV

Passage 3 — The Restored Clock Comes Home (Synthesis)

It turns out that the antique clock at Silverline Watch Restoration Studio belongs to Kaveri herself, inherited from her own mother, and has been gaining time at the same rate established earlier for as long as anyone in the family can remember. Today is Myra's twentieth birthday; she was born at exactly 4:40 PM, a fact the family has always been proud of remembering precisely. The moment the Kulkarni family walks into the studio together to collect the restored clock, its mirror shows the reflection reading 6:50.

Questions 13–24 are based on the passage above and may draw on Passages 1 and 2.

Q13. At what real time did the Kulkarni family arrive at the studio?

(A) 3:20 PM

(B) 4:50 PM

(C) 5:20 PM

(D) 4:20 PM

Q14. Myra was born at exactly 4:40 PM, and today is the date of her twentieth birthday.

What is Myra's exact age, in completed years, at the moment the family arrives (4:20 PM)?

(A) 20

(B) 19

(C) 18

(D) Cannot be determined from the given information

Q15. How many more minutes remain, from the moment of arrival, until Myra officially turns 20?

(A) 20

(B) 25

(C) 40

(D) 15

Q16. What will the clock's mirror show at the exact moment Myra turns 20 (4:40 PM)?

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- (A) 6:30
- (B) 6:45
- (C) 6:25
- (D) 5:35

Q17. Once Myra's birthday is complete, what will be the combined age of all four Kulkarni family members (Kaveri, Ela, Myra, and Arav)?

- (A) 142
- (B) 140
- (C) 146
- (D) 144

Q18. Suppose the studio recalibrates the clock at the exact moment the family arrives (4:20 PM), so that from then on it runs at a normal, accurate rate. What will the mirror show two real hours later, at 6:20 PM?

- (A) 3:20
- (B) 4:50
- (C) 5:10
- (D) 4:30

Q19. Which one of the following facts is NOT needed to determine whether Myra has already turned 20 at the exact moment of the family's visit?

- (A) Kaveri's exact current age (74)
- (B) The mirror reading at the moment of the visit (6:50)
- (C) The clock's established gain rate (15 minutes per hour)
- (D) Myra's exact birth time (4:40 PM)

Q20. Exactly one of the following statements is true. Which one?

- (A) Myra's exact age at the moment of the family's visit (4:20 PM) is 20 years
- (B) At the exact moment Myra turns 20, the raw (unreflected) dial reading is 6:25
- (C) Myra will turn 20 before 5:00 PM the same day
- (D) The clock's mirror will show exactly 6:00 exactly one hour after the family's arrival

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Q21. If the family had instead arrived exactly 40 minutes later than they actually did — at 5:00 PM rather than 4:20 PM — would Myra already be 20 at that moment, and what would the clock's mirror show then?

- (A) No, still 19; mirror would show 6:00
- (B) Yes, 20; mirror would show 6:00
- (C) Yes, 20; mirror would show 5:35
- (D) No, still 19; mirror would show 5:35

Q22. Does the Kulkarni family qualify for the insurer's loyalty discount described in Passage 2?

- (A) Yes, they exceed the threshold by 3
- (B) Yes, they exceed the threshold by 2
- (C) No, they fall short by 4
- (D) No, they fall short by 2

Q23. Suppose instead that the recalibration in Q18 had happened at the exact moment Myra turns 20 (4:40 PM), rather than at the family's 4:20 PM arrival. What would the mirror show at 6:20 PM under this version?

- (A) 4:45
- (B) 4:50
- (C) 5:15
- (D) 4:35

Q24. Consider the following four statements about the day's events. How many of them are true?

- I. Myra's true age at the moment of arrival (4:20 PM) was 19.
- II. The clock gains an extra 10 minutes of drift for every 20 real minutes that elapse.
- III. The sum of Kaveri's, Ela's, and Myra's ages, taken at the exact moment Myra turns 20, is 142.
- IV. The mirror reading at the moment Myra turns 20 is the same as the mirror reading 20 minutes earlier, at the family's arrival.

- (A) 1
- (B) 3

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(C) 2

(D) 4



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ANSWER KEY & FULL WORKED SOLUTIONS

PASSAGE 1 — Silverline Watch Restoration Studio (Water and Mirror Image)

Question 1

Correct answer: (B) 8:00

Full worked solution: The mirror-image rule states that the mirror reading and the true dial reading always add up to 11:60 (12 hours). So the actual dial reading = $11:60 - 4:00 = 7:60$, which carries over to 8:00. The clock's own face was therefore showing 8:00 at the moment the reference timer read 9:00 AM — a full hour behind accurate time, even before any drift during the day is considered.

Why each distractor is wrong:

(A) 7:00 — Used 11:00 as the subtraction base instead of the correct 11:60, an off-by-one-hour formula slip.

(C) 4:00 — Mistook the reflected (mirror) reading itself for the clock's true dial reading — never inverted it at all.

(D) 9:00 — Assumed the antique dial simply matches the accurate reference timer, ignoring the mirror relationship altogether.

Topic / sub-skill: Water and Mirror Image — Reverse-inversion of a mirror reading to recover the true dial value (base step for the day's rate-derivation sub-skill)

Classification: Water and Mirror Image

Difficulty: Hard — A clean single inversion, but the studio uses only a mirror (not water), and the 11:60 base — not 12:00 or 11:00 — must be applied correctly with a full minute-carry.

Question 2

Correct answer: (D) Gains 15 minutes every hour

Full worked solution: First invert both mirror readings. At 9:00 AM: dial = $11:60 - 4:00 = 8:00$. At 1:00 PM: dial = $11:60 - 11:00 = 1:00$. Reading '1:00' as earlier than 8:00 would wrongly suggest the clock lost time — but a worn, fast-running clock over four real hours

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cannot go backwards, so the dial must have travelled forward past the 12 o'clock mark onto its next lap. Its true absolute position is therefore $1:00 + 12:00 = 13:00$, i.e. 780 minutes measuring from the 9:00 AM anchor's own zero point of 480 minutes (8:00). Dial elapsed = $780 - 480 = 300$ minutes over 240 real minutes — an extra 60 minutes gained over 4 hours, i.e. 15 minutes gained every hour.

Why each distractor is wrong:

(A) Loses 15 minutes every hour — Forgot to invert the second mirror reading (11:00) into its dial value (1:00) and instead used 11:00 directly, which coincidentally gives the right magnitude but the wrong direction.

(B) Loses 75 minutes every hour — Read the raw dial figure at 1:00 PM ('1:00') as literally earlier than the 8:00 seen at 9:00 AM, wrongly concluding the clock runs backwards, without recognising the dial had actually lapped past 12.

(C) Gains 20 minutes every hour — An arithmetic slip while dividing the extra accumulated gain by the number of real hours elapsed.

Topic / sub-skill: Water and Mirror Image — Reverse-engineering an unknown constant gain rate from two mirror-image readings, requiring recognition of a 12-hour dial wraparound before the rate can be computed

Classification: Water and Mirror Image

Difficulty: Very Hard — Requires two inversions, recognising an implicit wraparound the passage never states outright, and only then dividing correctly — a strong student who skips the wraparound check gets a confident, wrong, direction-reversed answer.

Question 3

Correct answer: (A) 8:30

Full worked solution: From 9:00 AM to 3:00 PM is 6 real hours = 360 minutes. At 15 minutes gained per hour, the dial itself advances at 75 dial-minutes for every 60 real minutes — a multiplier of $5/4$. Dial elapsed = $360 \times 5/4 = 450$ minutes. Starting from the 8:00 (480-minute) anchor, the new absolute dial position is $480 + 450 = 930$ minutes; removing one full 720-minute lap gives 210 minutes = 3:30. The mirror image of 3:30 is $11:60 - 3:30 = 8:30$.

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Why each distractor is wrong:

(B) 3:30 — Correctly derived the new dial reading (3:30) but stopped there, reporting it directly instead of applying the final mirror transform.

(C) 9:00 — Added the original 4-hour window's total extra gain (60 minutes) a second time instead of scaling the gain to the new, longer time interval.

(D) 8:00 — Simply reused the 9:00 AM dial reading without projecting the clock forward through the elapsed time at all.

Topic / sub-skill: Water and Mirror Image — Forward-projecting a self-derived (not stated) rate through a further wraparound to a new real time, then re-applying the mirror transform

Classification: Water and Mirror Image

Difficulty: Very Hard — Chains the rate found in Q2 through a second wraparound and a final re-inversion — three genuine dependent steps.

Question 4

Correct answer: (C) The mirror's fixed distance from the clock, 1.4 metres

Full worked solution: To find the gain rate we need: both real times, both mirror readings (to recover both dial readings), and the assurance that nothing was adjusted in between — without that assurance, the 'constant rate' assumption itself would be unjustified. The mirror's physical distance from the clock changes nothing about the numeric relationship between a dial reading and its reflection: a plane mirror image works identically whether it sits ten centimetres away or ten metres away. The distance fact is true, but it plays no role in the arithmetic.

Why each distractor is wrong:

(A) The 1:00 PM mirror reading (11:00) — This reading is essential — removing it leaves only one data point, and a rate cannot be found from a single reading.

(B) The fact that no repair or adjustment was made to the clock between the two readings — This is easy to dismiss as mere scene-setting, but it is exactly what licenses treating the rate as constant across the interval; without it, the two readings could reflect two different, unrelated faults.

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(D) The 9:00 AM mirror reading (4:00) — This reading anchors the whole calculation — without it there is no starting dial position to compare against.

Topic / sub-skill: Water and Mirror Image — Redundant-data recognition distinguishing a genuinely load-bearing continuity assumption from a decorative physical-setup fact

Classification: Water and Mirror Image

Difficulty: Hard — Tests a conceptual distinction (which facts are numerically load-bearing versus merely descriptive) rather than computation; the 'no repair' fact is a deliberately tempting false-redundant option.

Question 5

Correct answer: (D) At 11:00 AM, the mirror will show 1:30

Full worked solution: Check each statement. II [labelled A above]: the dial at 9:00 AM was 8:00, not 9:00 — false. III [B]: the raw dial figure '1:00' at 1:00 PM looks earlier than the 8:00 seen at 9:00 AM, but this is the wraparound already established in Q2 — the clock had moved forward past 12, not backward — false. IV [C]: the mirror value rose from 4:00 to 11:00, an increase, not a decrease — false. I [D]: from 9:00 AM to 11:00 AM is 2 real hours = 120 minutes; dial elapsed = $120 \times \frac{5}{4} = 150$ minutes; new dial = $480 + 150 = 630$ minutes = 10:30; mirror = $720 - 630 = 90$ minutes = 1:30. This matches exactly — true.

Why each distractor is wrong:

(A) The dial and the reference timer showed the same time at 9:00 AM — False — the dial read 8:00 at 9:00 AM, a full hour behind the reference timer, even before the day's drift.

(B) The raw dial figure at 1:00 PM ('1:00') means the clock was, at that moment, running behind where it stood at 9:00 AM — False — this is precisely the wraparound trap: the raw '1:00' figure looks earlier, but the clock had actually advanced past 12 onto its next lap, so it was running ahead, not behind.

(C) Between 9:00 AM and 1:00 PM, the mirror image value decreased by exactly 7 hours — False — the mirror value went from 4:00 to 11:00, an increase of 7 hours, not a decrease.

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Topic / sub-skill: Water and Mirror Image — Comprehensive true/false verification requiring a fresh forward projection plus two independent checks against the wraparound and direction-of-change facts already established

Classification: Water and Mirror Image

Difficulty: Very Hard — Three of the four statements are each individually plausible restatements of half-understood facts from earlier questions; only full re-derivation catches all three as false.

Question 6

Correct answer: (B) 10:00

Full worked solution: Under the hypothetical, the dial-time multiplier becomes $90/60 = 3/2$ instead of $5/4$. Over the same 4 real hours (240 minutes) from 9:00 AM, dial elapsed = $240 \times 3/2 = 360$ minutes. New absolute dial = $480 + 360 = 840$ minutes; removing one lap of 720 gives 120 minutes = 2:00. The mirror image of 2:00 is $11:60 - 2:00 = 9:60 = 10:00$.

Why each distractor is wrong:

(A) 6:00 — Confused 'twice as severe a fault' with 'twice as long a time period' — used the original 15-minute rate but stretched it over 8 hours instead of correctly doubling the rate over the actual 4-hour window.

(C) 2:00 — Correctly recomputed the doubled-rate dial reading (2:00) but forgot to apply the final mirror transform, reporting the raw dial value instead of its reflection.

(D) 11:30 — Treated the extra fault as one flat one-time addition of 30 minutes to the original answer, rather than a rate that compounds over every one of the 4 elapsed hours.

Topic / sub-skill: Water and Mirror Image — Hypothetical rate-substitution requiring a full re-derivation from the original anchor rather than scaling the previously found answer

Classification: Water and Mirror Image

Difficulty: Very Hard — The correct method and three distinct, independently plausible wrong methods all require real arithmetic to tell apart — no shortcut separates them without full re-derivation.

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PASSAGE 2 — The Kulkarni Family's Insurance Form (Problem based on Ages)**Question 7**

Correct answer: (A) 48

Full worked solution: Let Ela's current age be E and Myra's be M . Six years ago their ages were $E-6$ and $M-6$. We are told $(E-6)+(M-6)=56$, and $E-6=3(M-6)$. Substituting: $3(M-6)+(M-6)=56 \rightarrow 4(M-6)=56 \rightarrow M-6=14 \rightarrow M=20$. Then $E-6=3 \times 14=42$, so $E=48$.

Why each distractor is wrong:

(B) 42 — Reported the six-years-ago age ($E-6$) directly, forgetting to add the six years back to reach the current age.

(C) 20 — Swapped which person's age was three times the other's in the past (treated Myra's past age as three times Ela's), which happens to land on Myra's own correct current age instead of Ela's.

(D) 44 — An arithmetic slip while solving the simultaneous pair of equations.

Topic / sub-skill: Problem based on Ages — Simultaneous-equation solve from a past-time 'total given for a subset' plus a past-time ratio, rather than a ratio stated at two separately-given time points

Classification: Problem based on Ages

Difficulty: Hard — A clean two-equation solve, but both facts are pinned to an unstated past moment (six years ago), requiring the offset to be carried through correctly at the end.

Question 8

Correct answer: (C) 74

Full worked solution: The diary fact — Kaveri was 26 when Ela was born — fixes the gap between Kaveri's and Ela's ages at a constant 26 years, for all time. Since Ela is now 48 (from Q7), Kaveri is now $48+26=74$.

Why each distractor is wrong:

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(A) 26 — Reported the age Kaveri was WHEN Ela was born as if it were Kaveri's current age, forgetting to add Ela's current age on top of it.

(B) 46 — Added the 26-year gap to Myra's current age instead of Ela's, confusing whose birth the diary fact refers to.

(D) 68 — Added the 26-year gap to Ela's PAST age (six years ago, 42) instead of her current age.

Topic / sub-skill: Problem based on Ages — Chaining a derived current age through a constant 'was-X-when-born' generational gap

Classification: Problem based on Ages

Difficulty: Hard — Depends entirely on Q7's correct value and on recognising the gap is constant regardless of which moment it is measured from.

Question 9

Correct answer: (D) 7

Full worked solution: In x years, Kaveri will be $74+x$ and Myra will be $20+x$. We need $74+x=3(20+x)$. Expanding: $74+x=60+3x \rightarrow 14=2x \rightarrow x=7$. Check: in 7 years, Kaveri is 81 and Myra is 27, and $81=3 \times 27$.

Why each distractor is wrong:

(A) 14 — Set up the equation applying the unknown number of years only to Kaveri's side, leaving Myra's age fixed at its current value.

(B) 9 — An arithmetic slip while solving the resulting linear equation.

(C) 13 — Confused this answer with the different question two items away (a 'years ago' answer for a different pair of people), pattern-matching the number rather than re-solving.

Topic / sub-skill: Problem based on Ages — Solving for an unknown number of years hence at which a stated ratio between two people's ages will hold — the ratio is not given at any stated time point, only the moment itself is unknown

Classification: Problem based on Ages

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Difficulty: Very Hard — The unknown is the TIME itself, not an age — a strong student who only knows how to read off a stated ratio at a stated time has nothing to substitute into.

Question 10

Correct answer: (B) 13

Full worked solution: x years ago, Ela was $48-x$ and Myra was $20-x$. We need $48-x=5(20-x)$. Expanding: $48-x=100-5x \rightarrow 4x=52 \rightarrow x=13$. Check: thirteen years ago, Ela was 35 and Myra was 7, and $35=5 \times 7$.

Why each distractor is wrong:

(A) 10 — An arithmetic slip while cross-multiplying the ratio equation.

(C) 7 — Confused this answer with the different (years-hence, different pair) question elsewhere in the passage, pattern-matching a nearby number instead of re-solving from scratch.

(D) 16 — A distribution error while expanding the right-hand side of the ratio equation.

Topic / sub-skill: Problem based on Ages — The same 'solve for the unknown time' mechanic as Q9, deliberately mirrored on a different pair of people and in the opposite temporal direction, to test re-derivation rather than pattern-matching

Classification: Problem based on Ages

Difficulty: Very Hard — Directly adjacent to a superficially similar question (Q9) with a different answer, different direction, and different multiplier — designed to catch pattern-matching.

Question 11

Correct answer: (C) The fact that Arav was born two years ago

Full worked solution: Kaveri's current age needs exactly two things: Ela's current age (which itself needs BOTH the six-years-ago total and the six-years-ago ratio — remove either one and

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the two unknowns E and M can no longer be separated) and the 'was 26 when Ela was born' gap. Arav's birth two years ago never enters any of these equations.

Why each distractor is wrong:

(A) The six-years-ago combined-age total of Ela and Myra (56) — Essential — without this, Ela's and Myra's past ages cannot be pinned down from the ratio alone.

(B) The six-years-ago ratio between Ela's and Myra's ages — Essential — without this, the past-age total alone leaves Ela's and Myra's individual ages undetermined.

(D) The fact that Kaveri was 26 when Ela was born — Essential — this is the only fact connecting Kaveri's age to the rest of the family at all.

Topic / sub-skill: Problem based on Ages — Redundant-data recognition across a three-generation family, distinguishing facts load-bearing for one specific person's age from a fact that is decorative throughout

Classification: Problem based on Ages

Difficulty: Hard — Three of the four listed facts are each individually necessary — the question rewards recognising that a fact can be true and family-relevant while still being irrelevant to this specific computation.

Question 12

Correct answer: (A) Only Statement II

Full worked solution: Check each. I: ten years ago Kaveri was 64, Ela was 38; double 38 is $76 \neq 64$ — false. III: in 7 years Ela will be 55, Myra 27; three times 27 is $81 \neq 55$ — false (a deliberate echo of Q9's ' $\times 3$ in 7 years' fact, applied here to the wrong pair). IV: the Ela–Myra gap is 28, not 30 — false. II: the gap between Kaveri and Myra is $74 - 20 = 54$, exactly as stated — true.

Why each distractor is wrong:

(B) Only Statement I — Statement I ('ten years ago, Kaveri's age was exactly double Ela's age then') is false: ten years ago Kaveri was 64 and Ela was 38; double 38 is 76, not 64.

(C) Only Statement III — Statement III ('in 7 years, Ela's age will be exactly three times Myra's age') is false: in 7 years Ela will be 55 and Myra 27; three times 27 is 81, not 55 —

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this deliberately reuses the '×3 in 7 years' relationship from Q9, but it does not hold for this different pair of people.

(D) Only Statement IV — Statement IV ('Myra was born when Ela was exactly 30 years old') is false: the actual gap between Ela and Myra is $48 - 20 = 28$, not 30.

Topic / sub-skill: Problem based on Ages — Four-way verification that deliberately reuses the numeric relationship from an earlier question (Q9's '×3 in 7 years') applied to the wrong pair of people, to test whether a fact is being re-checked or merely recognised

Classification: Problem based on Ages

Difficulty: Very Hard — Statement III is a near-exact echo of a genuinely true fact established two questions earlier, just relabelled onto different people — a student who is pattern-matching rather than re-verifying will mark it true.

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PASSAGE 3 — The Restored Clock Comes Home (SYNTHESIS)**Question 13**

Correct answer: (D) 4:20 PM

Full worked solution: Using the $\frac{5}{4}$ dial-rate multiplier from Passage 1, first invert the new mirror reading: dial = $11:60 - 6:50 = 5:10$. We need the real time at which the dial, projected forward from the 8:00 anchor at 9:00 AM, equals 5:10 on some lap. The next valid lap after the anchor gives an absolute dial target of $5:10 + 720 = 1030$ minutes (the lap before that lies before the anchor itself and is invalid). Dial elapsed from the anchor = $1030 - 480 = 550$ minutes. Real elapsed = $550 \div (\frac{5}{4}) = 440$ minutes = 7 hours 20 minutes. Adding this to 9:00 AM gives 4:20 PM.

Why each distractor is wrong:

(A) **3:20 PM** — Chose the wrong (earlier, invalid) branch of the wraparound — this candidate real time falls before the clock even reached the 9:00 AM anchor reading and cannot be the true solution.

(B) **4:50 PM** — Used the mirror reading (6:50) directly as if it were the dial reading, skipping the inversion step entirely.

(C) **5:20 PM** — An arithmetic slip while solving for the elapsed real time from the dial-elapsd figure.

Topic / sub-skill: Water and Mirror Image — Applying the established rate to a third, freshly given mirror reading to solve for an unknown real time, choosing the correct wraparound branch

Classification: Single-topic — Water and Mirror Image

Difficulty: Hard — A direct but multi-step application of Passage 1's established rate to new data; the branch-selection step (why the earlier candidate time is invalid) still requires genuine reasoning.

Question 14

Correct answer: (B) 19

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Full worked solution: The family arrives at 4:20 PM (from Q13). Myra's exact birth moment is 4:40 PM. Since 4:20 PM is 20 minutes BEFORE 4:40 PM, her twentieth birthday has not technically arrived yet — she is still, precisely, 19 years old. The calendar date alone is never enough when a question is pinned to an exact moment; the time of day must be checked too.

Why each distractor is wrong:

(A) 20 — Assumed that because today is the calendar date of her twentieth birthday, she must already be 20 — ignoring that her exact birth TIME has not yet passed on this date.

(C) 18 — Subtracted an extra year by mistake.

(D) Cannot be determined from the given information — Failed to compare the derived real time (Q13) against the stated birth time — both pieces of information are in fact given and sufficient.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — Fusing a Water/Mirror-derived real time with an exact stated birth time to determine a completed age at a specific moment, defeating the tempting 'same calendar date means same age' shortcut

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

Difficulty: Elite — Cannot be solved by either topic alone — the mirror-derived time from Q13 is meaningless for age purposes without the birth time, and the birth time is meaningless without Q13's derived real time; the concealed step is realising the comparison must be made at all.

Question 15

Correct answer: (A) 20

Full worked solution: From 4:20 PM (arrival) to 4:40 PM (the exact birth moment) is 20 minutes.

Why each distractor is wrong:

(B) 25 — An arithmetic slip, confusing this gap with a different interval elsewhere in the passage.

(C) 40 — Used the gap between arrival and the later time at which the mirror shows exactly 6:00, rather than the gap to Myra's actual birth moment.

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(D) 15 — An estimation error rather than an exact computation from the two stated times.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — Chaining Q14's established age-status finding into a direct real-time countdown

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

Difficulty: Very Hard — A short final step, but only correct once Q13 and Q14 have both been correctly established — an error anywhere upstream propagates here.

Question 16

Correct answer: (C) 6:25

Full worked solution: At the birth moment (4:40 PM), real elapsed from the 9:00 AM anchor = 7 hours 40 minutes = 460 minutes. Dial elapsed = $460 \times \frac{5}{4} = 575$ minutes. Absolute dial = $480 + 575 = 1055$; removing one lap gives 335 minutes = 5:35. The mirror image is $11:60 - 5:35 = 6:25$. Note the mirror value does not shift by the 20 real minutes that passed since arrival at a simple 1:1 rate — it shifts according to the clock's own established rate, exactly as in every other reading in this set.

Why each distractor is wrong:

(A) 6:30 — Assumed the mirror value shifts at the same 1:1 real-time rate as an ordinary clock — subtracting the 20 elapsed real minutes directly from the 6:50 arrival reading — instead of using the clock's own established $\frac{5}{4}$ dial-rate.

(B) 6:45 — An arithmetic slip while projecting the dial forward.

(D) 5:35 — Correctly computed the dial reading (5:35) at the birth moment but reported it directly, without applying the final mirror transform.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — Forward-projecting to an age-defined moment (not a stated real time) and re-applying the dial rate — not the real-time rate — to the mirror value

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

Difficulty: Elite — The target moment itself (Myra's exact birthday) comes from the Ages side of the fusion, while reaching it correctly requires the full Water/Mirror machinery, including the easily-missed distinction between real-time rate and dial rate.

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Question 17

Correct answer: (D) 144

Full worked solution: Once Myra's birthday is complete, the four ages are Kaveri 74, Ela 48, Myra 20 (her new age), and Arav 2. Combined: $74+48+20+2=144$.

Why each distractor is wrong:

(A) 142 — Used Myra's pre-birthday age of 19 instead of her completed age of 20, and also omitted Arav.

(B) 140 — Forgot to include Arav's age entirely.

(C) 146 — An arithmetic slip while adding the four ages.

Topic / sub-skill: Problem based on Ages — Multi-person summation requiring the correct post-birthday age rather than the pre-visit age

Classification: Single-topic — Problem based on Ages

Difficulty: Hard — Simple arithmetic once all four ages are correctly recalled, but it deliberately asks for the age AFTER the birthday completes, testing whether the visit-moment finding (still 19) is wrongly carried over.

Question 18

Correct answer: (B) 4:50

Full worked solution: The recalibrated clock keeps whatever dial reading it had at the moment of recalibration (4:20 PM, dial 5:10, from Q13's working) and from then on runs at a normal 1:1 rate. Two real hours later (6:20 PM), the dial has simply advanced by two hours to 7:10. The mirror image of 7:10 is $11:60 - 7:10 = 4:50$.

Why each distractor is wrong:

(A) 3:20 — Continued applying the old $5/4$ drift rate out of habit, even though the clock was just recalibrated to run normally.

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(C) 5:10 — Correctly advanced the dial by two hours but reported the dial reading directly, without the final mirror transform.

(D) 4:30 — An arithmetic slip in the two-hour addition.

Topic / sub-skill: Water and Mirror Image — Hypothetical rate-change (recalibration) testing whether the old, now-superseded drift rate is wrongly carried forward

Classification: Single-topic — Water and Mirror Image

Difficulty: Very Hard — The 'obvious' continuation is to keep using the established rate; recognising the rate no longer applies after the stated recalibration is the concealed step.

Question 19

Correct answer: (A) Kaveri's exact current age (74)

Full worked solution: To determine whether Myra has turned 20 at the visit, we need the mirror reading at that moment, the established gain rate (to convert it into a real time), and Myra's exact birth time (to compare against). Kaveri's own current age plays no role in this specific determination — however relevant it was to the Passage 2 questions, it is a genuinely unrelated fact here.

Why each distractor is wrong:

(B) The mirror reading at the moment of the visit (6:50) — Essential — without this reading, the real time of the visit cannot be found at all.

(C) The clock's established gain rate (15 minutes per hour) — Essential — without the established rate, the mirror reading cannot be converted into a real time.

(D) Myra's exact birth time (4:40 PM) — Essential — without the exact birth time, there is nothing to compare the derived real time against.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — Cross-topic redundant-data recognition, where a fact essential in one topic's questions (Kaveri's age, needed throughout Passage 2) is irrelevant to a specific fused question

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

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Difficulty: Very Hard — The tempting distractor is a fact that IS genuinely important elsewhere in the same family's data set — the question tests whether that importance is being assumed rather than checked against this specific determination.

Question 20

Correct answer: (C) Myra will turn 20 before 5:00 PM the same day

Full worked solution: I [A] is false — Myra is 19, not 20, at the visit (Q14). IV [B] is false — 6:25 is the mirror value at the birthday moment; the raw dial value there is 5:35 (Q16's working). III [D] is false — the mirror equals exactly 6:00 at 5:00 PM (dial 6:00 too, its own self-mirror point), which is 40 minutes after the 4:20 PM arrival, not one hour. II [C] is true: Myra turns 20 at 4:40 PM, which is indeed before 5:00 PM.

Why each distractor is wrong:

(A) Myra's exact age at the moment of the family's visit (4:20 PM) is 20 years — False — established in Q14 that she is still 19 at the moment of the visit.

(B) At the exact moment Myra turns 20, the raw (unreflected) dial reading is 6:25 — False — 6:25 is the MIRROR value at the birthday moment (Q16); the raw dial value there is 5:35.

(D) The clock's mirror will show exactly 6:00 exactly one hour after the family's arrival — False — the mirror shows exactly 6:00 at 5:00 PM, which is 40 minutes after the 4:20 PM arrival, not one hour.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — Four-way verification spanning both topics simultaneously, including a dial-versus-mirror value conflation trap

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

Difficulty: Elite — Requires re-deriving facts from both Water/Mirror and Ages sides in the same question, with one distractor deliberately swapping a dial value for its mirror value.

Question 21

Correct answer: (B) Yes, 20; mirror would show 6:00

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Full worked solution: 5:00 PM is after Myra's exact 4:40 PM birth-moment, so she would already be 20. Using the established rate at 5:00 PM: real elapsed from the anchor = 8 hours = 480 minutes; dial elapsed = $480 \times 5/4 = 600$; absolute dial = $480 + 600 = 1080$; removing one lap gives $360 = 6:00$. The mirror image of 6:00 is $11:60 - 6:00 = 6:00$ — this particular reading happens to be its own mirror image. So: yes, she would be 20, and the mirror would show 6:00.

Why each distractor is wrong:

(A) No, still 19; mirror would show 6:00 — Correctly computed the mirror value but incorrectly concluded her age status, forgetting that 5:00 PM is after her 4:40 PM birth moment.

(C) Yes, 20; mirror would show 5:35 — Correctly concluded she would be 20, but reported 5:35 — the DIAL value at the earlier birthday moment (4:40 PM), not the mirror value at 5:00 PM.

(D) No, still 19; mirror would show 5:35 — Combined both errors: wrong age conclusion and the wrong (dial, wrong-moment) numeric value.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — Combining a hypothetical real-time shift with both an age-status determination and an independent mirror-value lookup into a single answer

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

Difficulty: Elite — A genuine capstone: getting only one of the two required conclusions right still produces a wrong final option, since all four combinations are offered.

Question 22

Correct answer: (D) No, they fall short by 2

Full worked solution: The rule requires (Ela's age + Myra's age) to be at least $2.5 \times (\text{Ela's age} - \text{Myra's age})$. The sum is $48 + 20 = 68$. The gap is $48 - 20 = 28$. The required threshold is $2.5 \times 28 = 70$. Since 68 is less than 70, the family does not qualify — falling short by exactly 2.

Why each distractor is wrong:

(A) Yes, they exceed the threshold by 3 — Used the gap between Kaveri and Ela (26 years) instead of the gap between Ela and Myra, which the rule actually specifies.

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(B) Yes, they exceed the threshold by 2 — Correctly computed both the sum (68) and the threshold (70), but misread the comparison direction, wrongly concluding the family qualifies.

(C) No, they fall short by 4 — An arithmetic slip while computing 2.5×28 .

Topic / sub-skill: Problem based on Ages — Non-standard threshold comparison against a derived age gap, rather than a directly stated numeric target

Classification: Single-topic — Problem based on Ages

Difficulty: Hard — The threshold itself must be computed (not read off), and the specific pair of people it applies to (Ela–Myra, not Kaveri–Ela) must be correctly identified from the passage.

Question 23

Correct answer: (A) 4:45

Full worked solution: This recalibration happens at a different moment from Q18 — at the exact instant Myra turns 20 (4:40 PM), not at the earlier 4:20 PM arrival. At 4:40 PM the dial was 5:35 (established in Q16's working). From then on the clock runs at a normal 1:1 rate. From 4:40 PM to 6:20 PM is 100 minutes, so the dial advances to $5:35 + 1:40 = 7:15$. The mirror image of 7:15 is $11:60 - 7:15 = 4:45$.

Why each distractor is wrong:

(B) 4:50 — Carried over Q18's recalibration baseline (dial 5:10, fixed at the 4:20 PM arrival) instead of establishing a fresh baseline at the different moment specified here (4:40 PM).

(C) 5:15 — Correctly advanced the dial from the right baseline but reported the dial reading directly, without the final mirror transform.

(D) 4:35 — An arithmetic slip in the 100-minute addition.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — A second recalibration hypothetical anchored to the age-defined moment from the Ages side rather than the visit moment used in Q18, testing careful re-reading over pattern-matching an earlier answer

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

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Difficulty: Elite — Deliberately parallel in form to Q18 but anchored at a different, Ages-derived moment — a student who pattern-matches Q18's method without checking the new anchor gets a confident wrong answer.

Question 24

Correct answer: (C) 2

Full worked solution: I — true, established in Q14 (Myra was 19 at 4:20 PM). II — false: the clock's total dial advance is 25 minutes for every 20 real minutes (the $\frac{5}{4}$ rate), but the EXTRA drift beyond normal time is only 5 minutes for every 20 real minutes (25 minus the 20 that would pass anyway), not 10. III — true: at the exact moment Myra turns 20, the three ages are 74, 48, and 20, summing to 142. IV — false: the mirror at arrival (4:20 PM) reads 6:50, while the mirror at the birthday moment (4:40 PM) reads 6:25 (Q16) — these differ. Exactly two statements, I and III, are true.

Why each distractor is wrong:

(A) 1 — Correctly rejected II and IV, but also wrongly rejected III — likely by using Myra's pre-birthday age of 19 instead of her completed age of 20 in the sum ($74+48+19=141$, not 142).

(B) 3 — Wrongly accepted II — confusing the clock's TOTAL dial advance (25 minutes for every 20 real minutes, matching the $\frac{5}{4}$ rate) with the EXTRA drift beyond normal time, which is only 5 minutes for every 20 real minutes, not 10.

(D) 4 — Accepted all four uncritically without re-checking any of them individually.

Topic / sub-skill: Water and Mirror Image + Problem based on Ages — A four-statement capstone count integrating the established drift rate, the wraparound/rate-versus-drift distinction, and the family's ages simultaneously

Classification: SYNTHESIS — fuses Water and Mirror Image + Problem based on Ages

Difficulty: Elite — Requires distinguishing 'total dial advance' from 'extra drift beyond normal time' — a subtle rate-decomposition point — while simultaneously re-deriving an age sum correctly; a single slip in either flips the final count.

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