

**LOGIC · LOGICAL REASONING**

09. Word Problems on Ages

Official PMDC Solved Past Paper Topical Booklet · High-Yield Examination Series

© 6 Solved Questions

2023 to 2025 Archive

Boards: BUMHS, DUHS, KMU

Weightage: 3% of MDCAT (6 MCQs)

Curated by Ibrahim for fellow bees. Every question in this chapter has been verified against official UHS, NUMS, SZABMU, DUHS, and KMU answer keys. Propolis cognitive autopsies are provided at the end of this booklet to explain core concepts and break down common distractor traps.

OFFICIAL SOLVED EDITION**Q1.**

BUMHS 2025

The age of a man is twice that of his daughter. If the man is 36 years old, what was the daughter's age 4 years ago?

- (A) 14 years
- (B) 18 years
- (C) 20 years
- (D) 10 years

Q2.

KMU 2025

A father is 5 years older than twice his son's age. If the son is 12, what is the father's age?

- (A) 28 years
- (B) 29 years
- (C) 30 years
- (D) 32 years

Q3.

BUMHS 2025

The age of a man is twice that of his daughter. If the man is 36 years old, what was the daughter's age 4 years ago?

- (A) 14 years
- (B) 18 years
- (C) 20 years
- (D) 10 years

Q4.

KMU 2025

A father is 5 years older than twice his son's age. If the son is 12, what is the father's age?

- (A) 28 years
- (B) 29 years
- (C) 30 years
- (D) 32 years

Q5.

DUHS 2023

Essa is younger than Moosa.

Let X = Twice Essa's age

Let Y = Moosa's age

Which of the following is true?

- (A) $X > Y$
- (B) $Y > X$
- (C) $X = Y$
- (D) The relationship cannot be determined

Q6.

DUHS 2023

In 5 years, Sarah will be 18. How old is she now?

- (A) 13
- (B) 14
- (C) 15
- (D) 16

RAPID 5-COLUMN ANSWER KEY

Official PMDC verified answer keys for 09. Word Problems on Ages.

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Q#	KEY	BOARD
1	A	BUMHS 2025
2	B	KMU 2025

Q#	KEY	BOARD
3	A	BUMHS 2025
4	B	KMU 2025

Q#	KEY	BOARD
5	D	DUHS 2023
6	A	DUHS 2023

Q#	KEY	BOARD
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Q#	KEY	BOARD
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TOTAL MCQS
6

CORRECT

INCORRECT

BLANK

ACCURACY

%

Scan the booklet QR code to enter answers in
BeambePrep Grind Mode for automated error
autopsies.

PROPOLIS COGNITIVE ERROR AUTOPSIES

Step-by-step conceptual derivations, formula working, and distractor autopsies for every question.

Question #1 Key: (A)

BUMHS 2025

The age of a man is twice that of his daughter. If the man is 36 years old, what was the daughter's age 4 year...

CORE CONCEPT AND DERIVATION

Quantitative Reasoning – Word Problems on Ages.

Formula: Daughter's Present Age = $\frac{\text{Father's Present Age}}{2}$

Solution:

- Current age of the father = 36 years.
- Current age of the daughter = $\frac{36}{2} = 18$ years.
- Daughter's age 4 years ago = $18 - 4 = 14$ years.

Why other options are incorrect:

- **Option B:** Represents her **current** age, not her age 4 years ago.
- **Options C and D:** Result from incorrect addition or subtraction steps.

Question #2 Key: (B)

KMU 2025

A father is 5 years older than twice his son's age. If the son is 12, what is the father's age?

CORE CONCEPT AND DERIVATION

Algebraic Linear Formulation.

Formula: Father = $2 \times (\text{Son}) + 5$

Solution:

- Father = $2(12) + 5 = 24 + 5 = 29$ years.

Why other options are incorrect:

- **Option C:** Calculates $2(12) + 6 = 30$.

Question #3 Key: (A)

BUMHS 2025

The age of a man is twice that of his daughter. If the man is 36 years old, what was the daughter's age 4 year...

CORE CONCEPT AND DERIVATION

Linear Age Equations.

Formula: Past Age = $\frac{\text{Father's Age}}{2} - 4$

Solution:

- Daughter's present age = $\frac{36}{2} = 18$ years.
- Age 4 years ago = $18 - 4 = 14$ years.

Why other options are incorrect:

- **Option B:** Is the present age.

Question #4 Key: (B)

KMU 2025

A father is 5 years older than twice his son's age. If the son is 12, what is the father's age?

CORE CONCEPT AND DERIVATION

Linear Age Formulation.

Formula: $2(12) + 5 = 29$

Solution: Father = 29 years old.

Why other options are incorrect:

- **Option A:** Omits the 5-year addition.

Question #5 Key: (D)

DUHS 2023

Essa is younger than Moosa. Let [Formula] = Twice Essa's age Let [Formula] = Moosa's age Which of the followin...

CORE CONCEPT AND DERIVATION

Algebraic Inequality Indeterminacy.

Formula: $E < M$

Solution: Doubling E can make $2E > M$, $2E = M$, or $2E < M$ depending on exact numbers (e.g. if $E = 3$, $M = 10$ vs $E = 8$, $M = 10$). Thus, relationship is indeterminate.

Why other options are incorrect:

- **Options A, B, and C:** Assume specific numeric values.

Question #6 **Key: (A)**

DUHS 2023

In 5 years, Sarah will be 18. How old is she now?

CORE CONCEPT AND DERIVATION

Simple Age Algebra.

Formula: Current Age = $18 - 5$

Solution: Current age = 13.

Why other options are incorrect:

- **Options B, C, and D:** Incorrect subtraction.