

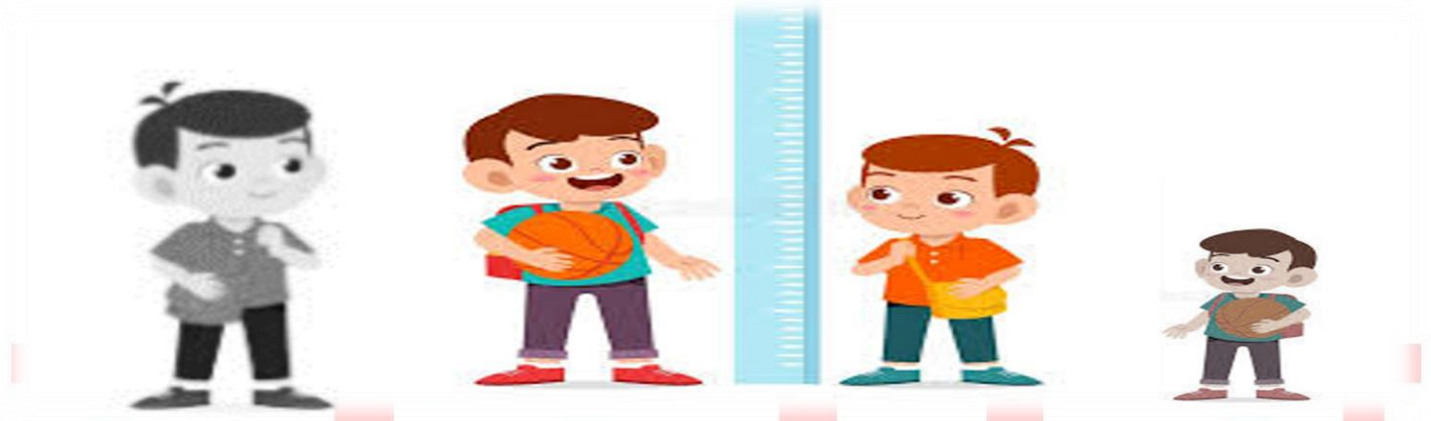
BROTHERS' HEIGHT PUZZLE

CONCEPT OF 'AVERAGE' SIMPLIFIED

[GO BACK TO INDEX](#)

#CYST #CanYouSolveThis? #LogicalAbilityEnhancingQuestion #VedicMathWorld #VMLS

Question: Next door to me live four brothers of different heights. Their average height is 74 inches. Difference in height amongst first three man is two inches. The difference between the third and the fourth man is six inches. Can you tell how tall is each brother?



Heights of four brothers are let's say A, B, C and D respectively.

Average height of four brothers is given 74 inches.

$$\text{Average} = \frac{\text{Sum of given data}}{\text{total number of data}}$$

$$\text{Sum} = \text{Average} \times \text{total number}$$

Here,

$$\text{Average} = 74 \text{ inches}$$

$$\text{Total number of people} = 4$$

So, total sum of height of all four brothers shall be,

$$74 \times 4 = 296.$$

As per the given condition in the question,

if $A = M$ Then,

$$B = M + 2, C = M + 4, D = M + 10$$

As,

$$A + B + C + D = 296$$

$$(M) + (M + 2) + (M + 4) + (M + 10) = 296$$

$$4M + 16 = 296$$

$$4M = 296 - 16 = 280$$

$$M = 70$$

Thus, heights of four brothers shall be 70 inches, 72 inches, 74 inches and 80 inches respectively.

CLICK HERE
To participate in Monthly Math Quiz

MATH
MANTRA

AUGUST_2021

Last date to apply

31st August, 2021

till 12:00pm

DOWNLOAD THE APP NOW!!



VEDIC MATH WORLD

VEDIC MATH TRICKS | CONCEPTS OF MATH & LOGIC
INTERESTING MATH FACTS | LOADS OF FREE CONTENT
QUIZZES & CONTESTS