

NCERT/CBSE MATHEMATICS CLASS 11 textbook

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MISCELLANEOUS EXERCISES

Answers to NCERT/CBSE MATH (Class XI) textbook

6. LINEAR INEQUALITIES

14. IQ of a person is given by the formula

$$IQ = \frac{MA}{CA} \times 100,$$

where MA is mental age and CA is chronological age. If $80 \leq IQ \leq 140$ for a group of 12 years old children, find the range of their mental age.

$$80 \leq \frac{MA}{CA} \times 100 \leq 140$$

$$\Rightarrow 80 \leq \frac{MA}{12} \times 100 \leq 140$$

$$\Rightarrow \frac{80}{100} \leq \frac{MA}{12} \leq \frac{140}{100}$$

$$\Rightarrow \frac{8}{10} \leq \frac{MA}{12} \leq \frac{14}{10}$$

$$\Rightarrow \frac{8}{10} \times 12 \leq MA \leq \frac{14}{10} \times 12$$

$$\Rightarrow 9.6 \leq MA \leq 16.8$$

Please do not copy the answer given here

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