

CLASS 8

MATHS

REVISION NOTES

Revision Notes for Class 8 Maths Chapter 13: Algebra Play

Condensed revision notes for Class 8 Maths Chapter 13: Algebra Play - Ganita Prakash textbook.

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“Think of a number” tricks: represent the chosen number as x ; after multiply/add/divide steps, the x -terms cancel out, leaving a fixed constant — this is why the trick always “works” regardless of the starting number.

Number pyramid rule: each cell = sum of the two cells directly below it (same rule as Pascal’s triangle).

3-row pyramid with bottom a, b, c : top = $a+2b+c$. **4-row pyramid** with bottom a, b, c, d : top = $a+3b+3c+d$ (coefficients 1,3,3,1 from Pascal’s triangle).

Virahanka-Fibonacci sequence: 1, 2, 3, 5, 8, 13, 21, ... (each term = sum of previous two). If the first n terms form the bottom row of an n -row pyramid, the top is always the $(2n-1)$ th term of the same sequence.

Grid sums: for a 3×3 block of consecutive-style numbers, the total = $9 \times$ the centre value. For a straight 1×3 strip, the total = $3 \times$ the middle value.

Largest product (3 digits, one 2-digit number and one 1-digit multiplier): put the single largest digit as the multiplier, and arrange the remaining two digits in descending order for the 2-digit number.

Divisibility tricks: two-digit number minus its reverse is always divisible by 9; two-digit number plus its reverse is always divisible by 11; a 3-digit number plus its two cyclic rotations is always divisible by 37 (and by 3); a 3-digit number repeated to form a 6-digit number is always divisible by $1001 = 7 \times 11 \times 13$.

Word problems: assign letters to unknowns, translate each sentence into an equation, and solve simultaneously when there are two unknowns (ages, cows, horses/hens, shop profit problems).

More on this chapter: [NCERT Solutions for Class 8 Maths Chapter 13](#) | [Extra Questions for Class 8 Maths Chapter 13](#) | [Class 8 Maths Book](#) | [Formulas Handbook](#)