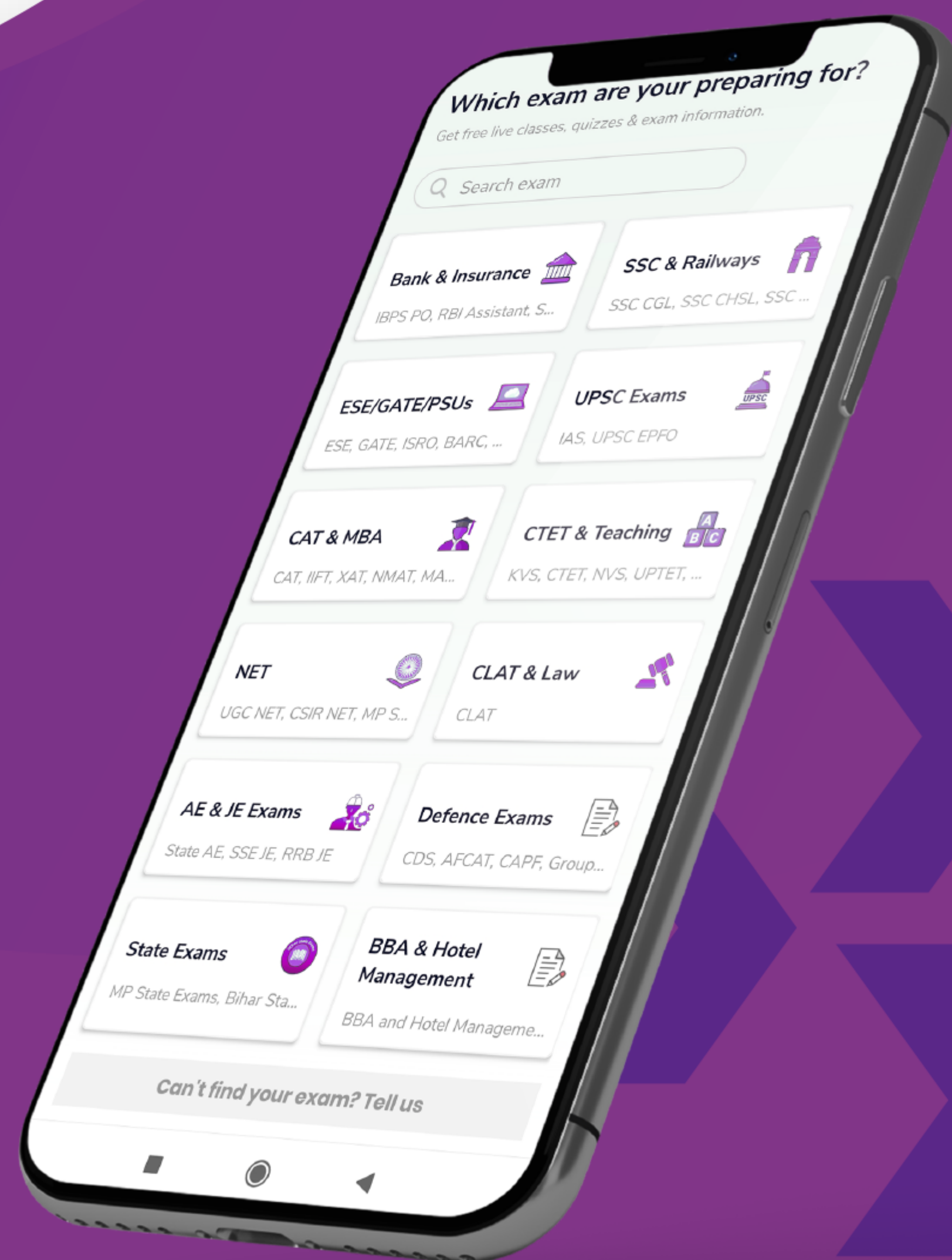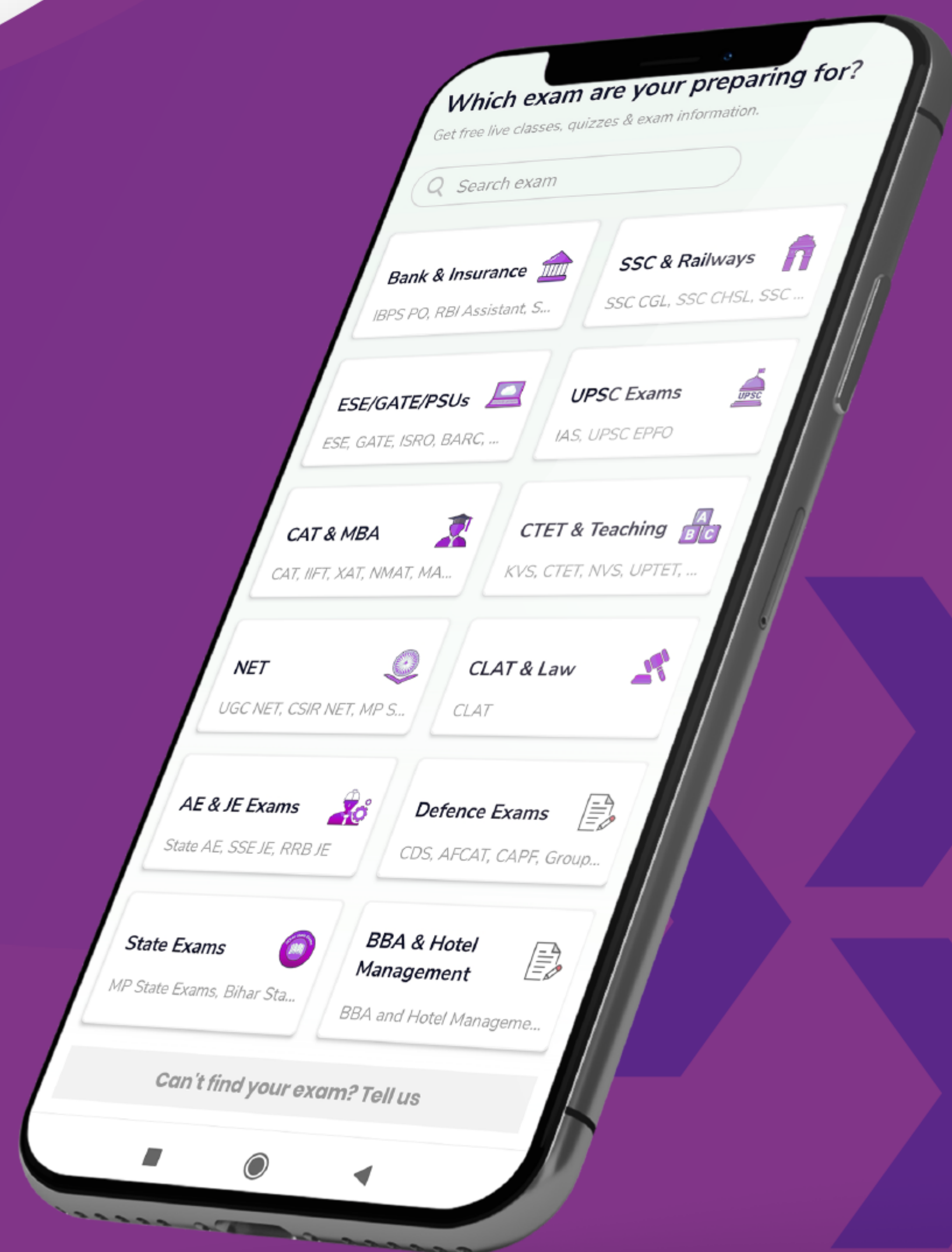# Formula Sheet On Simplification

Points To Remember

- Replace 'of' by 'Multiplication'
- Replace '/' by 'Division'
- Always do the operations in priority according to 'BODMAS'
- Division & Multiplication have the same priority (Start from left)
- Addition & Subtraction have the same priority
- Rounding can be done to simplify problems
- When the given options are very close then rounding doesn't help much
- Always look at the options before doing simplification that can help in the elimination of options.
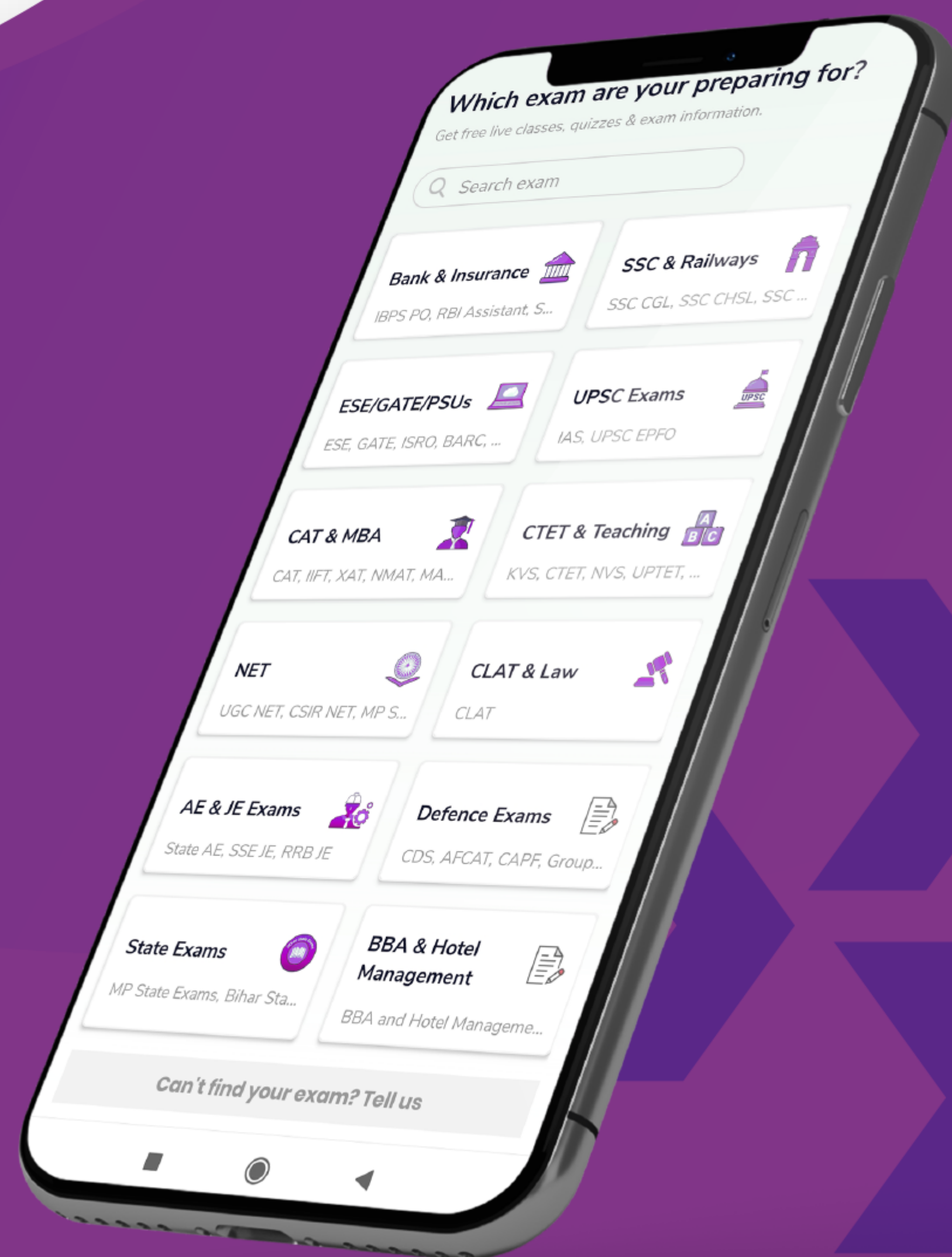
Important Rules related to Simplification

-

Rule-(I) Replace 'of' by 'Multiplication' & '/' by 'Division'.

Explanation: Whenever we find 'of' in a simplification problem, we can replace that with 'multiplication (*)'.

Similarly, '/' can be replaced by '÷'.

Rule-(II) Always keep in mind the "BODMAS" rule.

These operations have priorities in the same order as mentioned.

Explanation: Whenever we have more than one

operation in the given calculation,

we have to do the operations according to the priority
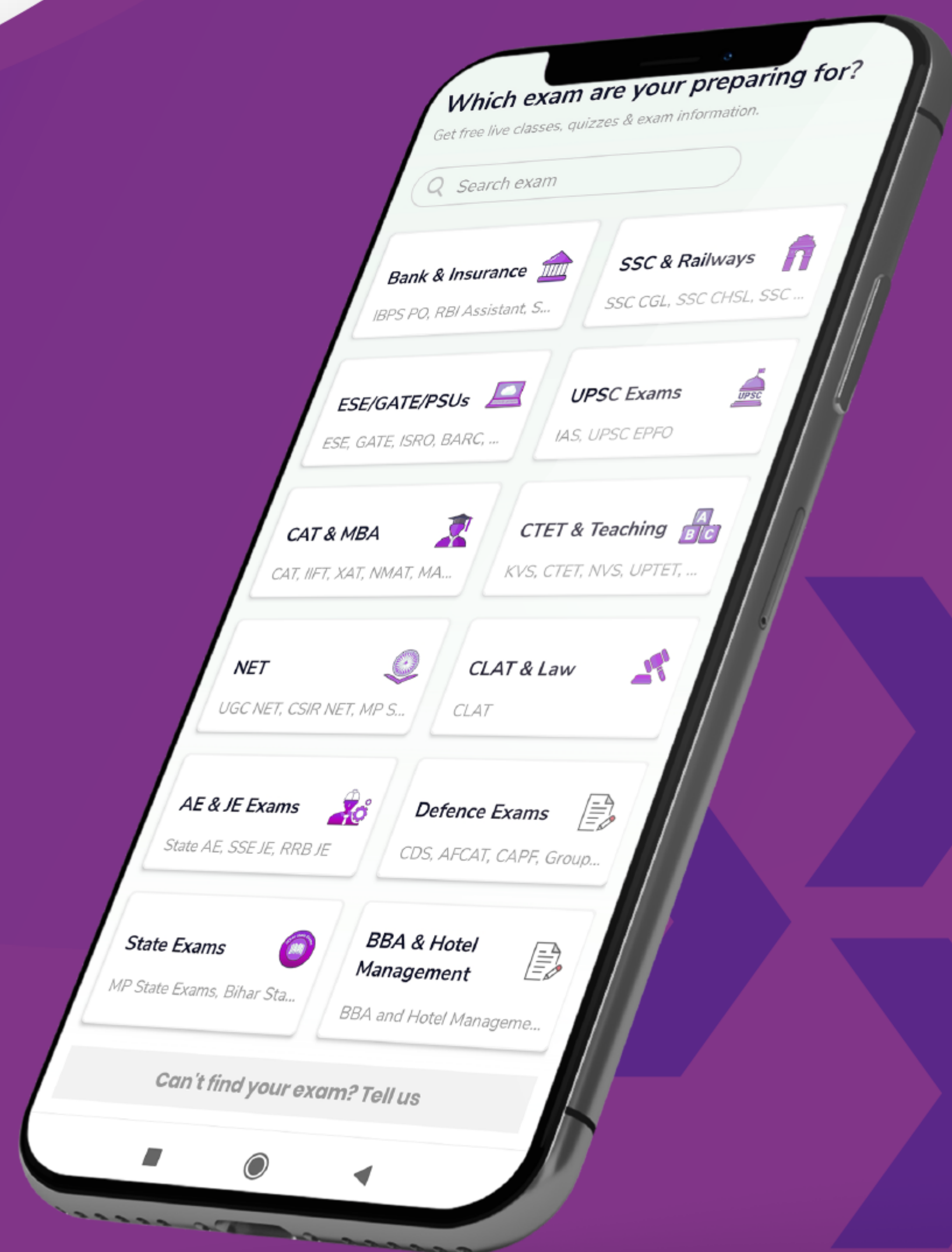
specified by 'BODMAS'

B-Bracket

O-Of (means multiplication)
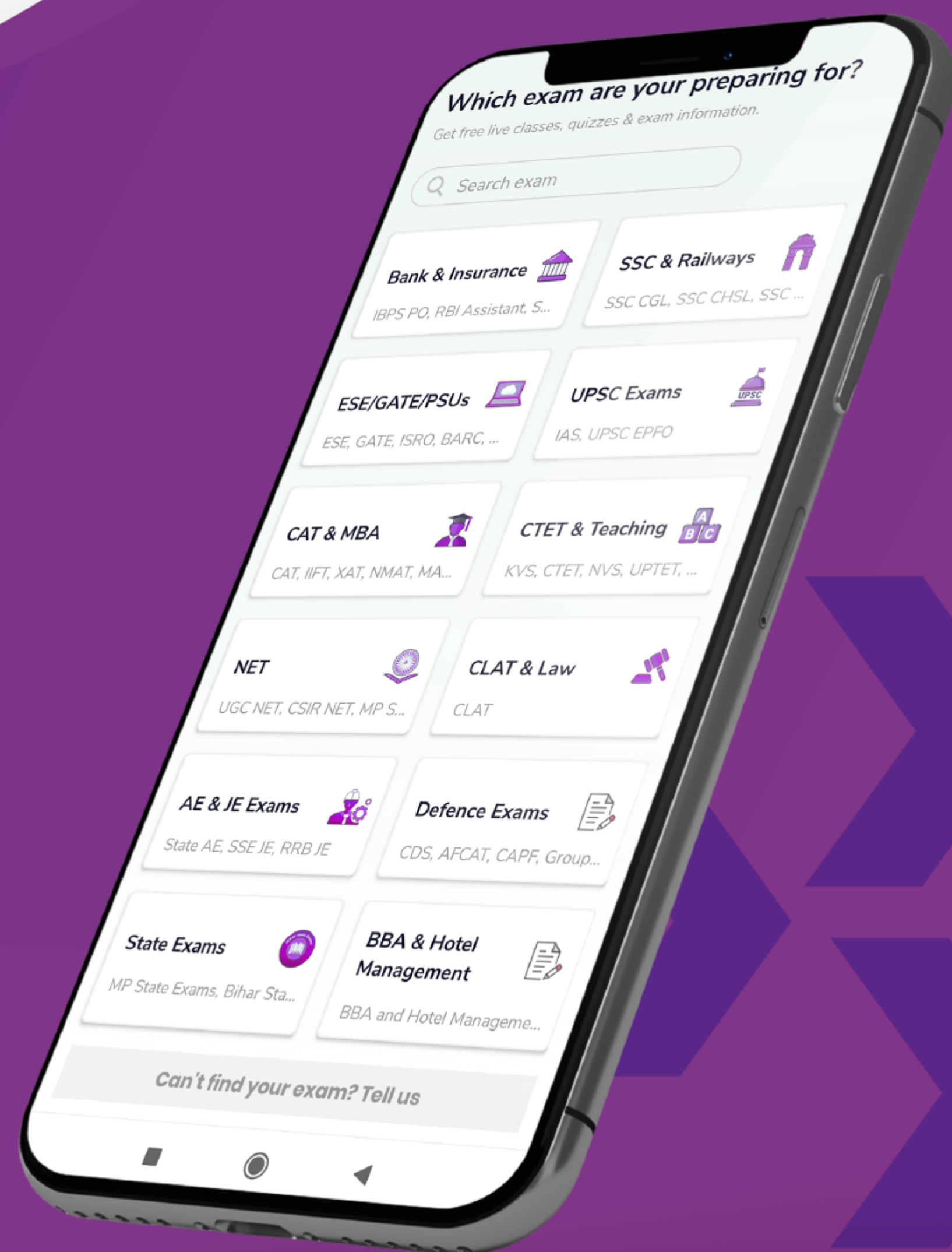
D-Division

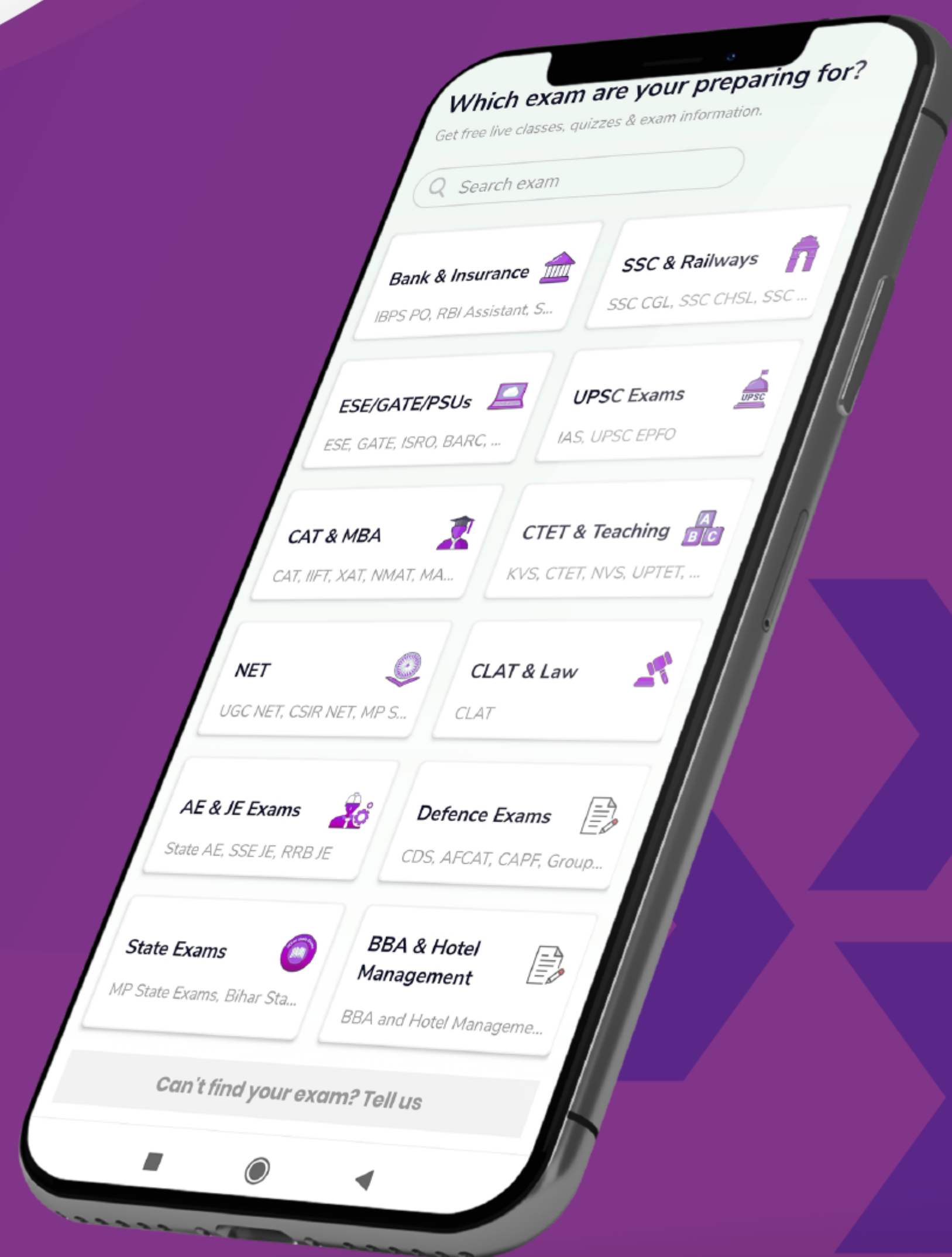M-Multiplication

A-Addition

S-Subtraction

Rule-(III) Multiplication & Division have the same priority.
(Do that operation first which is on left)

Explanation: Though division has more priority than multiplication according to 'BODMAS', we can perform any two operations first if multiplication is on the left.

Rule-(IV) Addition & Subtraction have the same priority.
Explanation: Though addition has more priority than division according to 'BODMAS',
we can perform any two operations first.

Rule-(V) Don't hesitate in rounding the numbers to the nearest integers. Explanation: Most of the time the numbers are given in such a way that you can round them quickly and get the answer. (Rounding should be done or not, it can be realized by looking at the given options).

Division Algorithm: Dividend = [Divisor × Quotient + Remainder]

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