Use of Brackets

Brackets help in simplifying an expression that has more than one mathematical operation.

If an expression that includes the brackets is given, then perform the operation inside the bracket and change everything into a single number. Then carry out the operation that lies outside the bracket.

Let's see some examples:-1. (6 + 8) x 10 = 14 x 10 = 140 2. (8 + 3) (9 - 4) = 11 x 5 = 55

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Expanding brackets

The use of brackets allows us to follow a certain procedure to expand the brackets systematically.

Let's understand with some examples:-

 $6 \times 105 = 6 \times (100 + 5) = 6 \times 100 + 6 \times 5 = 600 + 30 = 630$ $105 \times 108 = (100 + 5) \times (100 + 8)$ $= (100 + 5) \times 100 + (100 + 5) \times 8$ $= (100 \times 100) + (5 \times 100) + (100 \times 8) + (5 \times 8)$ = 10000 + 500 + 800 + 40= 11340.

