

CLASS 8 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 9: HOTS: We Distribute, Yet Things Multiply (Class 8)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. Expand $(2x - 1)(x + 4)$.
2. Expand $(5x - 2y)^2$.
3. Find 97^2 using an identity.
4. Find 49×51 using an identity.
5. If $a + b = 9$ and $ab = 18$, find $a^2 + b^2$.
6. Factorise $49x^2 - 36$.
7. Factorise $9a^2 + 12ab + 4b^2$.
8. Simplify $(x + 3)^2 - (x - 3)^2$.

Answer Key

1. $2x^2 + 7x - 4$.

2. $25x^2 - 20xy + 4y^2$.

3. 9409.

4. 2499.

5. 45.

6. $(7x - 6)(7x + 6)$.

7. $(3a + 2b)^2$.

8. $12x$.

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