



## Factor the Quadratic Equation with Coefficient - Split X Terms To Answer

1 Find common factors of the first 2 and last 2 terms, and solve.

$$35x^2 + 56x + 20x + 32$$

A  $(7x + 8)(32x + 4)$

B  $(5x + 8)(7x + 4)$

2 Find common factors of the first 2 and last 2 terms, and solve.

$$4t^2 + 12t + 7t + 21$$

A  $(t + 3)(4t + 7)$

B  $(t - 3)(19t + 7)$

3 Find common factors of the first 2 and last 2 terms, and solve.

$$7y^2 + 49y + 9y + 63$$

A  $(y + 7)(7y + 9)$

B  $(7y + 7)(76y - 9)$

4 Find common factors of the first 2 and last 2 terms, and solve.

$$25m^2 + 20m + 10m + 8$$

A  $(5m + 4)(5m + 2)$

B  $(5m + 4)(m + 2)$

5 Find common factors of the first 2 and last 2 terms, and solve.

$$15q^2 + 40q + 9q + 24$$

A  $(3q + 8)(5q + 3)$

B  $(q + 8)(49q + 3)$

6 Find common factors of the first 2 and last 2 terms, and solve.

$$35n^2 + 56n + 20n + 32$$

A  $(n - 8)(76n + 4)$

B  $(5n + 8)(7n + 4)$

7 Find common factors of the first 2 and last 2 terms, and solve.

$$21w^2 + 27w + 35w + 45$$

A  $(45w - 9)(w + 5)$

B  $(7w + 9)(3w + 5)$

8 Find common factors of the first 2 and last 2 terms, and solve.

$$6x^2 + 36x + 5x + 30$$

A  $(30x + 6)(x - 5)$

B  $(x + 6)(6x + 5)$