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

1 Find common factors of the first 2 and last 2 terms

$$49w^2 + 56w - 14w - 16$$

A $7w(7w-8) - 2(7w-8)$	B $7w(7w+8) + 2(7w+8)$
C $7w(7w+8) - 2(7w+8)$	D $7w(7w+2) - 8(7w+2)$

2 Find common factors of the first 2 and last 2 terms

$$24r^2 + 21r - 32r - 28$$

A $8r(3r+7) - 4(3r+7)$	B $3r(8r+7) + 4(8r+7)$
C $3r(8r+4) - 7(8r+4)$	D $3r(8r-7) - 4(8r-7)$
E $3r(8r+7) - 4(8r+7)$	

3 Find common factors of the first 2 and last 2 terms

$$35m^2 + 10m + 28m + 8$$

A $5m(7m+2) + 4(7m+2)$	B $7m(5m+2) - 4(5m+2)$
C $5m(7m-2) - 4(7m-2)$	D $5m(7m+4) - 2(7m+4)$

4 Find common factors of the first 2 and last 2 terms

$$21t^2 + 28t + 24t + 32$$

A $3t(7t+4) - 8(7t+4)$	B $7t(3t+4) + 8(3t+4)$
C $7t(3t+8) - 4(3t+8)$	D $7t(3t-4) - 8(3t-4)$

5 Find common factors of the first 2 and last 2 terms

$$49t^2 + 56t - 42t - 48$$

A $7t(7t+8) - 6(7t+8)$	B $7t(7t-8) - 6(7t-8)$
C $7t(7t+6) - 8(7t+6)$	D $7t(7t+8) + 6(7t+8)$

6 Find common factors of the first 2 and last 2 terms

$$63z^2 + 18z - 56z - 16$$

A $9z(7z-2) - 8(7z-2)$	B $7z(9z+2) - 8(9z+2)$
C $9z(7z+2) - 8(7z+2)$	D $9z(7z+2) + 8(7z+2)$
E $9z(7z+8) - 2(7z+8)$	

7 Find common factors of the first 2 and last 2 terms

$$15z^2 + 18z - 20z - 24$$

A $3z(5z-6) - 4(5z-6)$	B $3z(5z+6) - 4(5z+6)$
C $3z(5z+6) + 4(5z+6)$	D $5z(3z+6) - 4(3z+6)$
E $3z(5z+4) - 6(5z+4)$	

8 Find common factors of the first 2 and last 2 terms

$$36x^2 + 81x + 20x + 45$$

A $9x(4x-9) - 5(4x-9)$	B $9x(4x+5) - 9(4x+5)$
C $9x(4x+9) + 5(4x+9)$	D $4x(9x+9) - 5(9x+9)$