

Name:

ANSWERS!

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

$$(x + 4)(x + 3) = ax^2 + bx + c$$

$$x^2 + 3x + 4x + 12$$

$$x^2 + 7x + 12$$

F.O.I.L.
 First Outer Inner Last

$$a = 1 \quad b = 7 \quad c = 12$$

Question 02

$$(x + 5)(x - 2) = ax^2 + bx + c$$

$$x^2 - 2x + 5x - 10$$

$$x^2 + 3x - 10$$

$$a = 1 \quad b = 3 \quad c = -10$$

Question 03

$$(x - 6)(x + 2) = ax^2 + bx + c$$

$$x^2 + 2x - 6x - 12$$

$$x^2 - 4x - 12$$

$$a = 1 \quad b = -4 \quad c = -12$$

Question 04

$$(x - 3)(x - 5) = ax^2 + bx + c$$

$$x^2 - 5x - 3x + 15$$

$$x^2 - 8x + 15$$

$$a = 1 \quad b = -8 \quad c = 15$$

Question 05

$$(x + 2)(x + 6) = ax^2 + bx + c$$

$$x^2 + 6x + 2x + 12$$

$$x^2 + 8x + 12$$

$$a = 1 \quad b = 8 \quad c = 12$$

Question 06

$$(x + 3)(x - 5) = ax^2 + bx + c$$

$$x^2 - 5x + 3x - 15$$

$$x^2 - 2x - 15$$

$$a = 1 \quad b = -2 \quad c = -15$$

Question 07

$$(x - 4)(x + 3) = ax^2 + bx + c$$

$$x^2 + 3x - 4x - 12$$

$$x^2 - x - 12$$

$$a = 1 \quad b = -1 \quad c = -12$$

Question 08

$$(x - 5)(x - 2) = ax^2 + bx + c$$

$$x^2 - 2x - 5x + 10$$

$$x^2 - 7x + 10$$

$$a = 1 \quad b = -7 \quad c = 10$$

Question 09

$$(x + 4)(x - 5) = ax^2 + bx + c$$

$$x^2 - 5x + 4x - 20$$

$$x^2 - x - 20$$

$$a = 1 \quad b = -1 \quad c = -20$$

Question 10

$$(x - 3)(x + 6) = ax^2 + bx + c$$

$$x^2 + 6x - 3x - 18$$

$$x^2 + 3x - 18$$

$$a = 1 \quad b = 3 \quad c = -18$$