

Name:

ANSWERS!

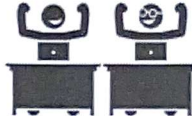
Class:



Communication



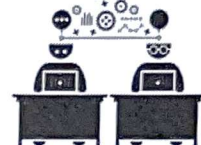
Successful Partnership



Encouragement



Solving Problem Together



Collaboration

For each of the below, re-write in factored form.

Question 01

$$x^2 + 9x + 20$$

↑ same
↑ both pos.

$$\begin{array}{r} 20 \\ 1 \quad 20 \\ 2 \quad 10 \\ 4 \quad 5 \end{array}$$

$$(x+4)(x+5)$$

Question 02

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

↑ different
↑ big neg.

$$\begin{array}{r} -15 \\ 1 \quad -15 \\ 3 \quad -5 \end{array}$$

$$(x+3)(x-5)$$

Question 03

$$x^2 + 6x - 16$$

↑ different
↑ big pos.

$$\begin{array}{r} -16 \\ -1 \quad 16 \\ -2 \quad 8 \\ -4 \quad 4 \end{array}$$

$$(x-2)(x+8)$$

Question 04

$$x^2 - 9x + 14$$

↑ same
↑ both neg.

$$\begin{array}{r} 14 \\ 1 \quad 14 \\ -1 \quad -14 \\ -2 \quad -7 \end{array}$$

$$(x-2)(x-7)$$

Question 05

$$x^2 + 11x + 10$$

↑ same
↑ both pos.

$$\begin{array}{r} 10 \\ 1 \quad 10 \\ 2 \quad 5 \end{array}$$

$$(x+1)(x+10)$$

Question 06

$$x^2 - 2x - 24$$

↑ different
big neg.

	-24
1	-24
2	-12
3	-8
4	-6

$$(x+4)(x-6)$$

Question 07

$$x^2 + x - 12$$

↑ different
big pos.

	-12
	12
-1	6
-2	4
-3	

$$(x-3)(x+4)$$

Question 08

$$x^2 - 11x + 28$$

↑ same
both neg.

	28
-1	-28
-2	-14
-4	-7

$$(x-4)(x-7)$$

Question 09

$$x^2 + 11x + 18$$

↑ same
both pos.

	18
	18
1	9
2	6
3	

$$(x+2)(x+9)$$

Question 10

$$x^2 - 7x - 30$$

↑ different
big neg.

	-30
1	-30
2	-15
3	-10
5	-6

$$(x+3)(x-10)$$

Question 11

$$x^2 + 13x - 30$$

↑ different
big pos.

	-30
-1	30
-2	15
-3	10
-5	6

$$(x-2)(x+15)$$

Question 12

$$x^2 - 11x + 30$$

↑ same
both neg.

	30
-1	-30
-2	-15
-3	-10
-5	-6

$$(x-5)(x-6)$$