

What Happened When the Boarding House Blew Up?

Factor each trinomial below. Find one of the factors in **each** column of binomials. Notice the letter next to one factor and the number next to the other. Write the letter in the box at the bottom of the page that contains the matching number.

- ① $3x^2 + 7x + 2$
- ② $2x^2 + 5x + 3$
- ③ $3x^2 - 16x + 5$
- ④ $7x^2 - 9x + 2$
- ⑤ $6u^2 + 5u + 1$
- ⑥ $8u^2 - 9u + 1$
- ⑦ $10u^2 + 17u + 3$
- ⑧ $9u^2 - 9u + 2$
- ⑨ $5u^2 + 11u + 6$

- | | |
|--------------|--------------|
| ⑤ $(5u + 3)$ | ① $(3u - 2)$ |
| ③ $(x - 1)$ | ⑤ $(x - 5)$ |
| ⑧ $(3x + 1)$ | ⑦ $(8u - 1)$ |
| ⑭ $(3u - 1)$ | ② $(7x - 2)$ |
| ⑥ $(2u + 3)$ | ④ $(5u + 1)$ |
| ⑮ $(x + 1)$ | ③ $(x + 2)$ |
| ⑨ $(5u + 6)$ | ⑥ $(7x + 2)$ |
| ⑦ $(2u + 1)$ | ① $(2x + 3)$ |
| ⑪ $(3x - 1)$ | ⑤ $(u + 1)$ |
| ⑰ $(u - 1)$ | ③ $(3u + 1)$ |

- ⑩ $3n^2 + 2n - 1$
- ⑪ $5n^2 - 4n - 1$
- ⑫ $2n^2 + 5n - 3$
- ⑬ $7n^2 - 13n - 2$
- ⑭ $3t^2 + 14t - 5$
- ⑮ $4t^2 - 11t + 7$
- ⑯ $6t^2 + 5t - 1$
- ⑰ $3t^2 - 20t - 7$

- | | |
|--------------|--------------|
| ⑫ $(3t - 1)$ | ① $(n + 3)$ |
| ⑤ $(n - 1)$ | ④ $(t - 1)$ |
| ④ $(3t + 1)$ | ② $(2t + 1)$ |
| ⑩ $(n - 2)$ | ③ $(n + 1)$ |
| ⑬ $(t + 1)$ | ⑤ $(t + 5)$ |
| ② $(3n - 1)$ | ④ $(5n + 1)$ |
| ⑯ $(2n - 1)$ | ③ $(t - 7)$ |
| ④ $(3t - 7)$ | ④ $(7n + 1)$ |
| ① $(4t - 7)$ | ② $(6t - 1)$ |

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
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OBJECTIVE 3-o: To factor trinomials of the form $ax^2 + bx + c$, where a is a positive integer greater than 1.

ALGEBRA WITH PIZZAZZ!
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