

Name _____

Date _____ Pd. _____

Notes: Factor Trinomials

Factor $ax^2 + bx + c$ To factor a trinomial of the form $ax^2 + bx + c$, find two integers, m and n whose product is equal to ac and whose sum is equal to b . If there are no integers that satisfy these requirements, the polynomial is called a _____

Example 1**Factor $2x^2 + 15x + 18$.****Example 2****Factor $3x^2 - 3x - 18$.**

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Exit Card: Factor Trinomials

Look at the rectangular prism below:



The volume of this rectangular prism is represented by the polynomial $6g^3 + 20g^2 + 16g$. Its length is represented by $2g$. Its width is represented by $(g + 2)$. What expression represents the height?

- A.** $(g + 4)$ **B.** $(g + 8)$ **C.** $(3g + 4)$ **D.** $(3g + 8)$
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For what values of P and Q does $6x^2 - 13x + 2 = (Px - 2)(Qx - 1)$?

- F.** $P = 2, Q = 3$ **G.** $P = 3, Q = 2$ **H.** $P = 1, Q = 6$ **J.** $P = 6, Q = 1$

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Homework: Page 499 (15 – 23 odd, 26, 27)

15. $3x^2 + 5x + 2$	17. $5d^2 + 6d - 8$
19. $9g^2 - 12g + 4$	21. $2x^2 - 3x - 20$
23. $3p^2 - 25p + 16$	
26. $15z^2 + 17z - 18$	27. $14x^2 + 13x - 12$