

Asynchronous Activity for Grade 8 Mathematics  
August 28, 2024 | WEDNESDAY  
Factor the following completely then drag the correct answer from the answer box below.

|                          |                             |                               |
|--------------------------|-----------------------------|-------------------------------|
| $x^3 + 125$<br>DROP HERE | $a^3 + 125$<br>DROP HERE    | $64x^3 + 1$<br>DROP HERE      |
| $a^3 + 64$<br>DROP HERE  | $x^3 + 27$<br>DROP HERE     | $343m^3 + 64n^3$<br>DROP HERE |
| $x^3 - 64$<br>DROP HERE  | $x^3 + 1$<br>DROP HERE      | $m^3 + 8n^3$<br>DROP HERE     |
| $u^3 + 8$<br>DROP HERE   | $8x^3 + 27$<br>DROP HERE    | $a^3 + 343b^3$<br>DROP HERE   |
| $x^3 - 27$<br>DROP HERE  | $-27u^3 + 125$<br>DROP HERE | $x^3 - 216y^3$<br>DROP HERE   |
| $125 - x^3$<br>DROP HERE | $-a^3 - 8$<br>DROP HERE     | $m^3 + 64$<br>DROP HERE       |
| $1 - a^3$<br>DROP HERE   | $8a^3 + 125$<br>DROP HERE   |                               |

Answer Box

|                               |                                   |                               |
|-------------------------------|-----------------------------------|-------------------------------|
| $(m + 2n)(m^2 - 2mn + 4n^2)$  | $(x + 3)(x^2 - 3x + 9)$           | $(a + 7b)(a^2 - 7ab + 49b^2)$ |
| $(x - 3)(x^2 + 3x + 9)$       | $(m + 4n)(m^2 - 4mn + 16n^2)$     | $(5 - x)(25 + 5x + x^2)$      |
| $(x - 6y)(x^2 + 6xy + 36y^2)$ | $(x - 4)(x^2 + 4x + 16)$          | $(2a + 5)(4a^2 - 10a + 25)$   |
| $(2x + 3)(4x^2 - 6x + 9)$     | $(4x + 1)(16x^2 - 4x + 1)$        | $(u + 2)(u^2 - 2u + 4)$       |
| $(a + 4)(a^2 - 4a + 16)$      | $(7m + 4n)(49m^2 - 28mn + 16n^2)$ | $(x + 1)(x^2 - x + 1)$        |
| $(a + 5)(a^2 - 5a + 25)$      | $(1 - a)(1 + a + a^2)$            | $(x + 5)(x^2 - 5x + 25)$      |
| $(-a - 2)(a^2 - 2a + 4)$      |                                   | $(-3u + 5)(9u^2 + 15u + 25)$  |