

FACTORING POLYNOMIALS – Day 2

1) Write $2x^2 - 6x - 36$ in factored form.

2) How is $5x^2 - 3x - 2$ expressed as the product of two binomials?

3) Factor the following binomial: $x^2 - 25$

4) Write $15x^2 - 9x + 15$ in factored form.

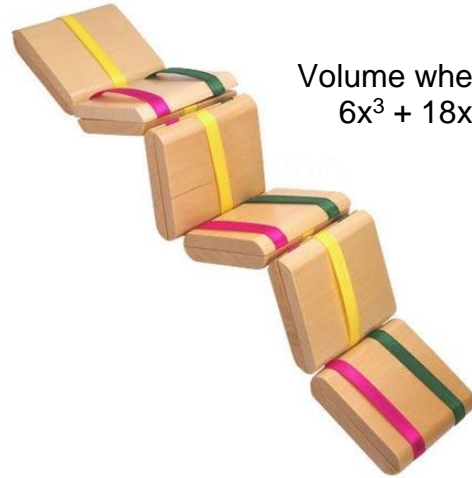
5) Which of the following is **not** one of the factors of $3x^3 + 30x^2 + 27x$?

- A. $3x$
- B. $x + 1$
- C. $x + 3$
- D. $x + 9$

6) Identify the expression that represents $4x^2 - 36$ in factored form.

- A. $4(x + 6)(x - 6)$
- B. $4(x + 3)(x - 3)$
- C. $4(x + 6)(x + 6)$
- D. $4(x + 3)(x + 3)$

7) The toy shown below is made of several wooden blocks that fold together to form a rectangular prism or unfold to form a "ladder." What expressions can be used to represent the dimensions of the toy when it is folded up?



Volume when folded =
 $6x^3 + 18x^2 + 12x$

_____ 8) Which function is equivalent to $g(x) = 4x^2 + 7x - 2$?

- A. $g(x) = (x - 2)(4x + 1)$
- B. $g(x) = (x + 2)(4x - 1)$
- C. $g(x) = (x + 2)(4x + 1)$
- D. $g(x) = (2x - 2)(2x + 1)$