

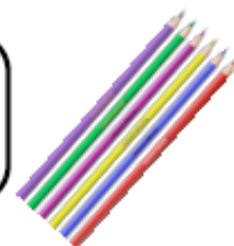
Where Can You Buy A 3 Foot Ruler?

Name: _____

Class: _____

Instructions:

This worksheet focuses on factoring quadratic expressions containing common factors. Complete the questions below, then find and color the factors in the diagram at the following page. Once all the factors have been found and colored the answer to the riddle will be revealed!



State only the common factor for each expression on the spaces below, then color the appropriate section

1) $6x^2 - 9x + 27$

2) $4x^3 - 100x$

3) $6x^2 + 24x + 18$

4) $4x^3 - 10x^2 - 14x$

Factor each quadratic expression below. Once you have both the common and binomial factors color all three factors for each expression in the diagram. Be sure to show your work!

5) $2x^2 - 2x - 24$

6) $x^3 + 15x^2 + 56x$

7) $4x^2 - 4x - 80$

8) $5x^2 - 20x + 15$

9) $3x^3 - 12x$

10) $-2x^2 - 32x - 120$

11) $5x^3 - 25x^2 - 30x$

12) $-3x^3 + 15x^2 + 150x$

