STANDARD II: The student will be able to solve equations and inequalities.

OBJECTIVE 2. Solve quadratic equations that are factorable.	Tips: Put the quadratic equation in standard form. Pull out any GCF. Look for special patterns.
ELIGIBLE CONTENT	Use magic number method to factor, ZPP to solve (Zero Product Property).
 Factoring of the type ax² + bx = 0 may be required. The following factoring may be required: difference of two squares greatest common monomial 	If b = 0, isolate squared term, solve by taking square root of both sides.
trinomialcommon binomial	If c=0, solve by factoring GCF.
SAMPLE ITEMS	Mr. C.

Solve: $16x^2 - 1 = 0$ Solve: 4x(x+1) - (x+1) = 01 3 **A** $0, \frac{1}{4}$ **A** $\frac{1}{4}, -\frac{1}{4}$ **B** 1, $\frac{1}{4}$ **B** $\frac{1}{16}, -\frac{1}{16}$ **C** -1, 0 **C** 4, -4 **D** $-1, \frac{1}{4}$ **D** 16, -16 Solve: $3x^2 - 9x = 0$ 4 Solve: $3x^2 - 2x - 5 = 0$ 2 **A** 3,9 **A** $\frac{5}{3}, -1$ **B** 0, -3 **B** $\frac{3}{5}, -1$ **C** 0, 3 **D** 0,9 **C** $\frac{5}{3}, 1$ **D** $-\frac{5}{3}, 1$

5 Solve: $5x^2 - 12 = 11x$ A $-\frac{4}{5}$, 3 B $\frac{4}{5}$, -3C $-\frac{6}{5}$, 2 D $\frac{6}{5}$, -2