NAME_____**DATE**_____**PER.**_____

SOLVING QUADRATIC EQUATIONS BY FACTORING – Day 1

Solve.

1. $(y - 5)(y - 7) = 0$	2. $y^2 - 9 = 0$
3. $w^2 - 2w = 63$	4. $2n^2 - 40n = 0$
5. $y^2 - 3y + 2 = 0$	6. $x^2 - 9x - 36 = 0$
7. $0 = x^2 + 14x + 48$	8. $m^2 - 36 = 16m$

9. $r^2 + 9 = 10r$	10. $y^2 = 17y - 72$

Find the dimension indicated.

11. The area of a rectangle is represented by the equation $\boldsymbol{w^2 + 4w = 60}$, where ***w*** is the width of the rectangle. Find the width.

12. The area of a triangle is represented by the equation $\boldsymbol{h^2 - h = 12}$, where ***h*** is the height of the triangle. Find the height.

REVIEW. Show all work.

13)_____	Determine the area of a rectangle whose dimensions are (3x + 2) and (2x + 1).