Quadratics ( $x^{2}$ )
Grade 9-

$$
\begin{gathered}
\frac{4 x^{2}-1^{x 5}}{5}=7 \times 5 \\
4 x^{2}-1=35^{+1} \\
x^{2}=9 \quad \frac{4 x^{2}}{4}=\frac{36}{4} \\
\sqrt{x^{2}}=\sqrt{9} \\
x= \pm 3
\end{gathered}
$$

Gr $10 \frac{\text { Factor }}{2}$ Assignment th 5

$$
\begin{aligned}
& x^{2}-4 x-12=0 \\
& (x+2)(x-6)=0 \\
& x=-20 r+6
\end{aligned}
$$

$$
\begin{aligned}
& x+8=0 \quad x^{2}+2 x-48=0 \\
& x=-8 \\
& x+6=0 \quad x=-8 \text { or } x-6) \\
& x=+6
\end{aligned}
$$

\#3

$$
\begin{aligned}
& x^{2}-10 x=0 \\
& x(x-10)=0 \\
& x=0 \text { or }+10
\end{aligned}
$$

$\# 4$

$$
3 x+1=00
$$

$$
\begin{aligned}
3 x & =-1 \quad x=-1 / 3 \text { or }-5 \\
x & =-1 / 3
\end{aligned}
$$

$$
x=-6
$$

$$
\begin{aligned}
& \frac{8 x^{2}}{\frac{815}{4,2 x}}-13 x \frac{-6}{\frac{6,5}{6,1}}= \\
& \text { Magic } \\
& 48.1 \\
& \begin{aligned}
\text { Multi } & 8 \times 6 \\
= & 48
\end{aligned} \\
& \text { Magic } \\
& \frac{4673}{12,4} \\
& (8 x+3)(x-2)=0\left(8 x^{2}-16 x+3 x-6\right)=8^{2} \\
& 8 x(x-2)+3(x-2) \\
& (8 x+3)(x-2)=0
\end{aligned}
$$

Last example:

$$
10 \times 12=120
$$

$$
\begin{aligned}
& \quad 10 x^{2}+7 x-12=0 \\
& \text { Factas } 10 x, 1 x \quad \frac{6,2}{3,4} \\
& \text { Combo } 5 x, 2 x \quad 12,11
\end{aligned}
$$

$$
\begin{array}{cc}
1 & 120 \\
2 & 60 \\
3 & 40 \\
4 & 30
\end{array}
$$

$$
\begin{aligned}
& \text { Brackels } \\
& 5 x-4=0
\end{aligned} \begin{aligned}
& (5 x-4)(2 x+ \\
& x=\frac{+4}{5} \text { or }-3 / 2
\end{aligned}
$$

$$
\begin{aligned}
& +3)=0 \begin{array}{l}
0, \\
5, \\
5,24 \\
6, \\
6,20 \\
-8,+15
\end{array}
\end{aligned}
$$

