Algebra 1   8.6
Factor trinomials
Solve quadratic equations by factoring

quadratic
EWE
Factor
Zero product property
activity: speed dating

Factor each polynomial.

1A. $d^2 + 11d + 24$

$(x+8)(x+3)$

24

8 3

11

b. $x^2 - 7x - 18 = 0$

Factor vs solve

$$(X-9)(x+2) = 0$$

-18
-9×2
-7

$X - 9 = 0 \qquad (X+2) = 0$
$+ 9 \ +9 \qquad \quad -2 \ -2$

$X = 9 \qquad\qquad X = -2$

$=$
0

3A. $y^2 + 13y - 48$

$(y + 16)(y - 3)$

-48

16 ✕ -3

13

Z

1 48
2 24
-3 +16
4 12
6 8

= 0

3B. $r^2 - 2r - 24 = 0$

-24

-6×4

-2

$(r - 6)(r + 4) = 0$

$\downarrow$ $\downarrow$

$r - 6 = 0$ $r + 4 = 0$
$+6 \ +6$ $-4 \ -4$

1   24
2   12
3   8
④ ⑥

$r = 6$ $r = -4$

$=$
0

Solve the problem that you have been given.
Show ALL your work on a separate piece of paper.
Check answers with me.
You are the expert on this problem.
Wait for instructions.

WB 8.6 1-29 odds

Quiz Wed. 8.5 - 8.6

Speed dating...
Remember, you are the expert on your problem!