

# D: Solving Two Step $a(x+b)=c$

1. Divide out number in front of bracket.
2. Isolate variable.
3. Divide if you need to.

Examples: 1. Solve

a.  $6(t-4)=24$

$\frac{6}{6} \frac{(t-4)}{6} = \frac{24}{6}$

$t-4 = 4$

$+4 \quad +4$

$t = 8$

b.  $0 = 14(n-4)$

$\frac{0}{14} = \frac{14(n-4)}{14}$

$0 = n-4$

$+4 \quad +4$

$4 = n$

c.  $6(2+g) = -150$

$\frac{6}{6} (2+g) = \frac{-150}{6}$

$2+g = -25$

$-2 \quad -2$

$g = -27$

Assignment Pg. 398 # 4-9 (6:7 just solve)

d.  $72 = 12(f+26)$

$\frac{72}{12} = \frac{12(f+26)}{12}$

$6 = f+26$

$-26 \quad -26$

$-20 = f$

2. Solve and verify.

a)  $8(m-6) = 24$

$\frac{8}{8} (m-6) = \frac{24}{8}$

$m-6 = 3$

$+6 \quad +6$

$m = 9$

Verify:

$8(m-6) = 24$

$8(9-6) = 24$

$8(3) = 24$

$24 = 24 \checkmark$

↓  
BEDMAS

b)  $84 = -28(n-22)$

$\frac{84}{-28} = \frac{-28(n-22)}{-28}$

$-3 = n-22$

$+22 \quad +22$

$19 = n$

Verify:

$84 = -28(n-22)$

$84 = -28(19-22)$

$84 = -28(-3)$

$84 = 84 \checkmark$