Basic Two-step Equations with Unknown on One Side **Date:** **Name:**

http://www.learnersgrid.com

Through your working, show how you are keeping the equation balanced as you solve for the variable. Round to 1 d.p. if necessary.

[1]

$4m + 17 = 37$

[2]

$\frac{n}{4} + 16 = 20$

[3]

$109 = 11m + 21$

[4]

$4m - 14 = 26$

[5]

$8m - 19 = 109$

[6]

$55 = 6m - 17$

[7]

$-4m + 18 = -22$

[8]

$\frac{c}{8} - 16 = -11$

[9]

$-98 = -12m + 22$

[10]

$7m - 11 = -67$

[11]

$10m - 20 = -230$

[12]

$44 = 5m - 21$

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Through your working, show how you are keeping the equation balanced as you solve for the variable. Round to 1 d.p. if necessary.

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[1]

$4m + 17 = 37$

$-17 \quad -17$

$4m = 20$

$\div 4 \quad \div 4$

$\boxed{m = 5}$

[2]

$\frac{n}{4} + 16 = 20$

$-16 \quad -16$

$\frac{n}{4} = 4$

$\times 4 \quad \times 4$

$\boxed{n = 16}$

[3]

$109 = 11m + 21$

$-21 \quad -21$

$88 = 11m$

$\div 11 \quad \div 11$

$8 = m$

$\boxed{m = 8}$

[4]

$4m - 14 = 26$

$+14 \quad +14$

$4m = 40$

$\div 4 \quad \div 4$

$\boxed{m = 10}$

[5]

$8m - 19 = 109$

$+19 \quad +19$

$8m = 128$

$\div 8 \quad \div 8$

$\boxed{m = 16}$

[6]

$55 = 6m - 17$

$+17 \quad +17$

$72 = 6m$

$\div 6 \quad \div 6$

$12 = m$

$\boxed{m = 12}$

[7]

$-4m + 18 = -22$

$-18 \quad -18$

$-4m = -40$

$\div -4 \quad \div -4$

$\boxed{m = 10}$

[8]

$\frac{c}{8} - 16 = -11$

$+16 \quad +16$

$\frac{c}{8} = 5$

$\times 8 \quad \times 8$

$\boxed{c = 40}$

[9]

$-98 = -12m + 22$

$-22 \quad -22$

$-120 = -12m$

$\div -12 \quad \div -12$

$10 = m$

$\boxed{m = 10}$

[10]

$7m - 11 = -67$

$+11 \quad +11$

$7m = -56$

$\div 7 \quad \div 7$

$\boxed{m = -8}$

[11]

$10m - 20 = -230$

$+20 \quad +20$

$10m = -210$

$\div 10 \quad \div 10$

$\boxed{m = -21}$

[12]

$44 = 5m - 21$

$+21 \quad +21$

$65 = 5m$

$\div 5 \quad \div 5$

$13 = m$

$\boxed{m = 13}$