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

Through your working, show how you are keeping the equation balanced as you solve   *http://www.learnersgrid.com*
for the variable. Round to 1 d.p. if necessary.

[1]

$$4.5m + 23 = 54.5$$

[2]

$$3.2m + 10 = 35.6$$

[3]

$$26.6 = 3.4m + 13$$

[4]

$$7m - 15 = 27.7$$

[5]

$$6m - 18 = 120.6$$

[6]

$$55.8 = 6m - 18$$

[7]

$$-10.1m + 23 = -27.5$$

[8]

$$11.8m + 12 = -71$$

[9]

$$0.8 = -3.4m + 11$$

[10]

$$7m - 10.7 = -52.7$$

[11]

$$10m - 22 = -238$$

[12]

$$144.9 = 9m - 18$$

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

http://www.learnersgrid.com

[1] $4.5m + 23 = 54.5$
$- 23 \quad\quad - 23$
$4.5m = 31.5$
$\div 4.5 \quad\quad \div 4.5$
$\boxed{\mathbf{\textit{m} = 7.0}}$

[2] $3.2m + 10 = 35.6$
$- 10 \quad\quad - 10$
$3.2m = 25.6$
$\div 3.2 \quad\quad \div 3.2$
$\boxed{\mathbf{\textit{m} = 8.0}}$

[3] $26.6 = 3.4m + 13$
$- 13 \quad\quad\quad\quad - 13$
$13.6 = 3.4m$
$\div 3.4 \quad\quad \div 3.4$
$4.0 = m$
$\boxed{\mathbf{\textit{m} = 4.0}}$

[4] $7m - 15 = 27.7$
$+ 15 \quad\quad + 15$
$7m = 42.7$
$\div 7 \quad\quad \div 7$
$\boxed{\mathbf{\textit{m} = 6.1}}$

[5] $6m - 18 = 120.6$
$+ 18 \quad\quad + 18$
$6m = 138.6$
$\div 6 \quad\quad \div 6$
$\boxed{\mathbf{\textit{m} = 23.1}}$

[6] $55.8 = 6m - 18$
$+ 18 \quad\quad\quad\quad + 18$
$73.8 = 6m$
$\div 6 \quad\quad \div 6$
$12.3 = m$
$\boxed{\mathbf{\textit{m} = 12.3}}$

[7] $-10.1m + 23 = -27.5$

$-23 \qquad -23$

$-10.1m = -50.5$

$\div -10.1 \qquad \div -10.1$

$$m = 5.0$$

[8] $11.8m + 12 = -71.0$

$-12 \qquad -12$

$11.8m = -83$

$\div 11.8 \qquad \div 11.8$

$$m = -7$$

[9] $0.8 = -3.4m + 11$

$-11 \qquad -11$

$-10 = -3.4m$

$\div -3.4 \qquad \div -3.4$

$3.0 = m$

$$m = 3.0$$

[10] $7m - 10.7 = -52.7$

$+10.7 \qquad +10.7$

$7m = -42$

$\div 7 \qquad \div 7$

$$m = -6.0$$

[11] $10m - 22 = -238$

$+22 \qquad +22$

$10m = -216$

$\div 10 \qquad \div 10$

$$m = -21.6$$

[12] $144.9 = 9m - 18$

$+18 \qquad +18$

$162.9 = 9m$

$\div 9 \qquad \div 9$

$18.1 = m$

$$m = 9.0$$