## **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 for the variable. Round to 1 d.p. if necessary.

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[1]

$$12.8m + 15 = 104.6$$

[2]

$$3.3m + 11 = 40.7$$

[3]

$$140 = 12.7m + 13$$

[4]

$$3m - 18 = 14.7$$

[5]

$$9m - 9 = 202.5$$

[6]

$$139.6 = 8m - 14$$

[7]

$$-4.5m + 12 = 3$$

[8]

$$10.1m + 18 = -108.9$$

[9]

$$-51.3 = -7.7m + 18$$

[10]

$$4m - 9.7 = -37.7$$

[11]

$$12m - 15 = -282.6$$

[12]

$$162.2 = 9m - 16$$

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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] 
$$12.8m + 15 = 104.6$$

$$-15 - 15$$

$$12.8m = 89.6$$

$$\div 12.8 \div 12.8$$

$$m = 7.0$$

[2] 
$$3.3m + 11 = 40.7$$

$$-11 -11$$

$$3.3m = 29.7$$

$$\div 3.3 \div 3.3$$

$$m = 9.0$$

[3] 
$$140 = 12.7m + 13$$
$$-13 - 13$$
$$127.0 = 12.7m$$
$$\div 12.7 \div 12.7$$
$$10.0 = m$$
$$m = 10.0$$

[4] 
$$3m - 18 = 14.7$$
 $+ 18 + 18$ 
 $3m = 32.7$ 
 $\div 3 \div 3$ 
 $m = 10.9$ 

[5] 
$$9m-9 = 202.5$$
 $+9 + 9$ 
 $9m = 211.5$ 
 $\div 9 \div 9$ 
 $m = 23.5$ 

[6] 
$$139.6 = 8m - 14$$

$$+ 14 + 14$$

$$153.6 = 8m$$

$$\div 8 + 8$$

$$19.2 = m$$

$$m = 19.2$$

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$$\begin{array}{rcl}
-4.5m + 12 & = & 3 \\
 & -12 & & -12 \\
 & -4.5m & = & -9 \\
 & \div -4.5 & & \div -4.5 \\
\hline
m & = & 2.0
\end{array}$$

[8] 
$$10.1m + 18 = -108.9$$

$$-18 - 18$$

$$10.1m = -126.9$$

$$\div 10.1 \div 10.1$$

$$m = -12.6$$

[9] 
$$-51.3 = -7.7m + 18$$
$$-18 - 18$$
$$-69 = -7.7m$$
$$\div -7.7 \div -7.7$$
$$9.0 = m$$
$$m = 9.0$$

[10] 
$$4m - 9.7 = -37.7$$

$$+9.7 + 9.7$$

$$4m = -28$$

$$\div 4 \div 4$$

$$m = -7.0$$

[11] 
$$12m - 15 = -282.6$$

$$+ 15 + 15$$

$$12m = -267.6$$

$$+ 12 + 12$$

$$m = -22.3$$

[12] 
$$162.2 = 9m - 16$$

$$+ 16 + 16$$

$$178.2 = 9m$$

$$+ 9 + 9$$

$$19.8 = m$$

$$m = 9.0$$