## **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]

$$3m + 23 = 38$$

[2]

$$8m + 23 = 39$$

[3]

$$80 = 10m + 20$$

[4]

$$9m - 18 = 27$$

[5]

$$11m - 9 = 134$$

[6]

$$251 = 11m - 13$$

[7]

$$-12m + 23 = -13$$

[8]

$$12m + 22 = -58$$

[9]

$$-4 = -3m + 23$$

[10]

$$7m - 22 = -134$$

[11]

$$12m - 21 = -201$$

[12]

$$123 = 8m - 13$$

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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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$$3m + 23 - \div$$

$$3m + 23 = 38$$

$$-23 - 23$$

$$3m = 15$$

$$\div 3 \div 3$$

$$m = 5$$

[2] 
$$8m + 23 = 39$$

$$-23 - 23$$

$$8m = 16$$

$$\div 8 \div 8$$

$$m = 2$$

24 11 m + 13 - ÷

[6] 251 = 11m - 13 + 13

264 = 11m

÷ 11 ÷ 11

24 = m

$$m = 24$$

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$$\begin{array}{rcl}
-12 m & + & 23 - & \div \\
-12 m + 23 & = & -13 \\
& -23 & -23 \\
& -12 m & = & -36 \\
& \div -12 & \div -12
\end{array}$$

$$\begin{array}{rcl}
m & = & 3
\end{array}$$

[8] 
$$12m + 22 = -58$$

$$-22 - 22$$

$$12m = -80$$

$$\div 12 \div 12$$

$$m = -6.7$$

$$\begin{array}{rcl}
-3 & m & + & 23 - & \div \\
-4 & = & -3m + 23 \\
-23 & & -23 \\
-27 & = & -3m \\
\div -3 & & \div -3 \\
9 & = & m \\
\hline
m & = & 9
\end{array}$$

$$7m + 22 - \div$$
[10] 
$$7m - 22 = -134$$

$$+ 22 + 22$$

$$7m = -112$$

$$\div 7 \div 7$$

$$m = -16$$

-15 12 m + 21 - ÷

[11] 12m - 21 = -201
 + 21 + 21

12m = -180
 ÷ 12 ÷ 12

$$m = -15$$

17 8 m + 13 - 
$$\div$$
[12] 123 = 8m - 13
+ 13 + 13

136 = 8m
 $\div$ 8  $\div$ 8

17 = m

 $m = 17$