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]
$$10.5m + 20 = 104$$

$$\frac{C}{6} + 190.8 = 196.8$$

$$12m - 9 = 124.2$$

[6]
$$211.3 = 11m - 12$$

$$\frac{h}{4}$$
 - 12 = 58.08

$$-4.9 = -8.3m + 20$$

$$11m - 8.4 = -52.4$$

[5]

[8]

44.8 = 4m - 10

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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.

[1]
$$10.5m + 20 = 104$$

$$-20 - 20$$

$$10.5m = 84$$

$$\div 10.5 \div 10.5$$

$$m = 8.0$$

[3]
$$64.2 = 12.3m + 15$$
 $-15 = -15$
 $49.2 = 12.3m$
 $\div 12.3 \div 12.3$
 $4.0 = m$
 $m = 4.0$

[4]
$$12m - 9 = 124.2$$

$$+ 9 + 9$$

$$12m = 133.2$$

$$+ 12 + 12$$

$$m = 11.1$$

[5]
$$10m - 11 = 180$$

$$+ 11 + 11$$

$$10m = 191$$

$$\div 10 \div 10$$

$$m = 19.1$$

[6]
$$211.3 = 11m - 12$$

$$+ 12 + 12$$

$$223.3 = 11m$$

$$+ 11 + 11$$

$$20.3 = m$$

$$m = 20.3$$

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[7]
$$-9.3m + 14 = -79$$

$$-14 - 14$$

$$-9.3m = -93$$

$$\div -9.3 \div -9.3$$

$$m = 10.0$$

[8]
$$h = 12 = 58.08$$
 $h = 70.075$
 $h = 280.3$

[9]
$$-4.9 = -8.3m + 20$$
$$-20 = -20$$
$$-25 = -8.3m$$
$$\div -8.3 = \div -8.3$$
$$3.0 = m$$
$$m = 3.0$$

[10]
$$11m - 8.4 = -52.4 + 8.4$$
$$+ 8.4 + 8.4$$
$$11m = -44$$
$$\div 11 \div 11$$
$$m = -4.0$$

[11]
$$10m - 11 = -176$$

$$+ 11 + 11$$

$$10m = -165$$

$$+ 10$$

$$m = -16.5$$

[12]
$$44.8 = 4m - 10$$

$$+ 10 + 10$$

$$54.8 = 4m$$

$$+ 4 + 4$$

$$13.7 = m$$

$$m = 9.0$$