## **Basic Two-step Equations with Unknown on One Side**

Date:

Name:

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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]

$$12m + 16 = 64$$

[2]

$$\frac{f}{6}$$
 + 15 = 18

[3]

$$83 = 7m + 13$$

[4]

$$7m - 16 = 26$$

[5]

$$4m - 21 = 59$$

[6]

$$132 = 8m - 20$$

[7]

$$-8m + 13 = -11$$

$$\frac{c}{4}$$
 - 11 = -4

[9]

$$-1 = -9m + 17$$

[10]

$$8m - 15 = -143$$

[11]

$$8m - 13 = -149$$

[12]

$$115 = 6m - 17$$

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[1] 
$$12m + 16 = 64$$

$$-16 - 16$$

$$12m = 48$$

$$\div 12 \div 12$$

$$m = 4$$

$$\frac{f}{6} + 15 = 18$$

$$\frac{f}{6 \times 6} = 3$$

$$\frac{f}{6 \times 6} \times 6$$

$$f = 18$$

[3] 
$$83 = 7m + 13$$
 $-13 - 13$ 
 $70 = 7m$ 
 $\div 7 \div 7$ 
 $10 = m$ 
 $m = 10$ 

[4] 
$$7m-16 = 26$$
  
 $+16 + 16$   
 $7m = 42$   
 $\div 7 \div 7$   
 $m = 6$ 

[5] 
$$4m - 21 = 59$$

$$+ 2l + 2l$$

$$4m = 80$$

$$\div 4 + 4$$

$$m = 20$$

[6] 
$$132 = 8m - 20$$

$$+ 20 + 20$$

$$152 = 8m$$

$$\div 8 + 8$$

$$19 = m$$

$$m = 19$$

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[8] 
$$\frac{C}{4} - 11 = -4$$
 $\frac{C}{4 \times 4} = 7$ 
 $\frac{C}{4 \times 4} \times 4$ 
 $C = 28$ 

[9] 
$$-1 = -9m + 17$$

$$-17 - 17$$

$$-18 = -9m$$

$$\div -9 + -9$$

$$2 = m$$

$$m = 2$$

[10] 
$$8m - 15 = -143$$

$$+ 15 + 15$$

$$8m = -128$$

$$+ 8 + 8$$

$$m = -16$$

[11] 
$$8m - 13 = -149$$

$$+ 13 + 13$$

$$8m = -136$$

$$\div 8 \div 8$$

$$m = -17$$

[12] 
$$115 = 6m - 17$$

$$+ 17 + 17$$

$$132 = 6m$$

$$\div 6 + 6$$

$$22 = m$$

$$m = 22$$