Basic One-step Equations. **Date:** **Name:**

Through your working, show how you are keeping the equation balanced as you solve for the variable.

http://www.learnersgrid.com

Round to 1 d.p. if necessary.

[1] $c - 27 = -20$

[2] $27 - y = 20$

[3] $-13 = m - 31$

[4] $k + 30 = 44$

[5] $33 + y = 42$

[6] $82 = w + 48$

[7] $29 = 55 - w$

[8] $1 + g = 12$

[9] $44 = 40 + c$

[10] $\frac{k}{3} = 8$

[11] $\frac{d}{7} = 17$

[12] $14 = \frac{w}{6}$

[13] $40 = 10g$

[14] $17k = 170$

[15] $171 = 19w$

SOLUTIONS **Basic One-step Equations.**

Through your working, show how you are keeping the equation balanced as you solve for the variable.

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Round to 1 d.p. if necessary.

[1]

+ 20 − 27

$c - 27 = -20$

+ 27 + 27

$c = 7$

[2]

+ 27 − 20

$27 - y = 20$

− 27 − 27

$-y = -7$

× − 1 × − 1

$y = 7$

[3]

+ 13 − 31

$-13 = m - 31$

+ 31 + 31

$18 = m$

$m = 18$

[4]

+ 16 − 30

$k + 30 = 44$

− 30 − 30

$k = 14$

[5]

+ 33 − 42

$33 + y = 42$

− 33 − 33

$y = 9$

[6]

+ 14 − 48

$82 = w + 48$

− 48 − 48

$34 = w$

$w = 34$

[7]

+ 55 − 29

$29 = 55 - w$

− 55 − 55

$-26 = -w$

× − 1 × − 1

$26 = w$

$w = 26$

[8]

+ 1 − 12

$1 + g = 12$

− 1 − 1

$g = 11$

[9]

+ 40 − 44

$44 = 40 + c$

− 40 − 40

$4 = c$

$c = 4$

[10]

× 3

$\frac{k}{3} = 8$ ×3 ×3

$k = 24$

[11]

× 7

$\frac{d}{7} = 17$ ×7 ×7

$d = 119$

[12]

× 6

14 ×6 $= \frac{w}{6}$ ×6

$84 = w$

$w = 84$

[13]

10 g 4

$40 = 10g$

÷ 10 ÷ 10

$4 = g$

$g = 4$

[14]

17 k 10

$17k = 170$

÷ 17 ÷ 17

$k = 10$

[15]

19 w 9

$171 = 19w$

÷ 19 ÷ 19

$9 = w$

$w = 9$