

Basic One-step Equations.

Date:

Name:

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] $7.2y = 14.4$

[2] $10.7y = 107$

[3] $15.1h = 111.7$

[4] $39.6 = 9.9c$

[5] $73.8 = 15.7c$

[6] $123.5 = 19.6y$

[7] $-8.6d = -94.6$

[8] $-12n = -192$

[9] $-15.1y = -93.6$

[10] $-70 = -10w$

[11] $-268.6 = -15.8d$

[12] $-162.4 = -19.1d$

[13] $-6y = 48$

[14] $-11h = 22$

[15] $168 = -14y$

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.

$$\begin{aligned} \text{[1]} \quad 7.2y &= 14.4 \\ &\div 7.2 \quad \div 7.2 \\ y &= 2 \end{aligned}$$

$$\begin{aligned} \text{[2]} \quad 10.7y &= 107 \\ &\div 10.7 \quad \div 10.7 \\ y &= 10 \end{aligned}$$

$$\begin{aligned} \text{[3]} \quad 15.1h &= 111.7 \\ &\div 15.1 \quad \div 15.1 \\ h &= 7.4 \end{aligned}$$

$$\begin{aligned} \text{[4]} \quad 39.6 &= 9.9c \\ &\div 9.9 \quad \div 9.9 \\ 4 &= c \\ c &= 4 \end{aligned}$$

$$\begin{aligned} \text{[5]} \quad 73.8 &= 15.7c \\ &\div 15.7 \quad \div 15.7 \\ 4.7 &= c \\ c &= 4.7 \end{aligned}$$

$$\begin{aligned} \text{[6]} \quad 123.5 &= 19.6y \\ &\div 19.6 \quad \div 19.6 \\ 6.3 &= y \\ y &= 6.3 \end{aligned}$$

$$\begin{aligned} \text{[7]} \quad -8.6d &= -94.6 \\ &\div -8.6 \quad \div -8.6 \\ d &= 11 \end{aligned}$$

$$\begin{aligned} \text{[8]} \quad -12n &= -192 \\ &\div -12 \quad \div -12 \\ n &= 16 \end{aligned}$$

$$\begin{aligned} \text{[9]} \quad -15.1y &= -93.6 \\ &\div -15.1 \quad \div -15.1 \\ y &= 6.2 \end{aligned}$$

$$\begin{aligned} \text{[10]} \quad -70 &= -10w \\ &\div -10 \quad \div -10 \\ 7 &= w \\ w &= 7 \end{aligned}$$

$$\begin{aligned} \text{[11]} \quad -268.6 &= -15.8d \\ &\div -15.8 \quad \div -15.8 \\ 17 &= d \\ d &= 17 \end{aligned}$$

$$\begin{aligned} \text{[12]} \quad -162.4 &= -19.1d \\ &\div -19.1 \quad \div -19.1 \\ 8.5 &= d \\ d &= 8.5 \end{aligned}$$

$$\begin{aligned} \text{[13]} \quad -6y &= 48 \\ &\div -6 \quad \div -6 \\ y &= -8 \end{aligned}$$

$$\begin{aligned} \text{[14]} \quad -11h &= 22 \\ &\div -11 \quad \div -11 \\ h &= -2 \end{aligned}$$

$$\begin{aligned} \text{[15]} \quad 168 &= -14y \\ &\div -14 \quad \div -14 \\ -12 &= y \\ y &= -12 \end{aligned}$$