

One and Two Step Equations Review

Solve the following equations in the box provided. Remember to put your answers in simplest form.
SHOW ALL WORK TO RECEIVE FULL CREDIT!!

<p>1. $\begin{array}{r} -15 = 2 + n \\ -2 \quad -2 \\ \hline -17 = n \end{array}$</p>	<p>2. $\begin{array}{r} x - 10 = -11 \\ +10 \quad +10 \\ \hline x = -1 \end{array}$</p>	<p>Answers</p> <p>1. <u>-17</u></p> <p>2. <u>-1</u></p> <p>3. <u>15</u></p> <p>4. <u>-152</u></p> <p>5. <u>-11</u></p> <p>6. <u>-3/10</u></p> <p>7. <u>65/9 or 7²/9</u></p> <p>8. <u>-15.2</u></p> <p>9. <u>1.65</u></p> <p>10. <u>1.7</u></p>
<p>3. $\begin{array}{r} -4x = -60 \\ -4 \quad -4 \\ \hline x = 15 \end{array}$</p>	<p>4. $\begin{array}{r} 19 \cdot \frac{a}{19} = -8 \cdot 19 \\ \hline a = -152 \end{array}$</p>	
<p>5. $\begin{array}{r} -18 = x - 7 \\ +7 \quad +7 \\ \hline -11 = x \end{array}$</p>	<p>6. $\begin{array}{r} \frac{29}{20} = k - (-1\frac{3}{4}) \\ 20 \left(\frac{29}{20} = k + \frac{7}{4} \right) \\ \frac{29}{1} = 20k + \frac{35}{1} \\ -35 \quad -35 \\ \hline -6 = 20k \\ \frac{-6}{20} = \frac{20k}{20} \quad k = \frac{-3}{10} \end{array}$</p>	
<p>7. $\begin{array}{r} 10 \left(\frac{13}{2} = \frac{9}{10}n \right) \\ \frac{65}{1} = \frac{9n}{1} \\ \frac{65}{9} = n \end{array}$</p>	<p>8. $\begin{array}{r} -1.6 = k - (-13.6) \\ -1.6 = k + 13.6 \\ -13.6 \quad -13.6 \\ \hline -15.2 = k \end{array}$</p>	
<p>9. $\begin{array}{r} 13.8x = 227.7 \\ 13.8 \quad 13.8 \\ \hline \end{array}$</p> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="flex: 1;"> $\begin{array}{r} 1.65 \\ 138 \overline{) 227.70} \\ \underline{-138} \\ 897 \\ \underline{-878} \\ 690 \\ \underline{-690} \\ 0 \end{array}$ </div> <div style="margin-left: 20px;"> $x = 1.65$ </div> </div>	<p>10. $\begin{array}{r} k - 12.9 = -11.2 \\ +12.9 \quad +12.9 \\ \hline k = 1.7 \end{array}$</p>	

$$11. 3 \cdot \frac{k+2}{3} = -3 \cdot 3$$

$$\begin{array}{r} k+2 = -9 \\ -2 \quad -2 \\ \hline k = -11 \end{array}$$

$$12. -2 + \frac{x}{5} = -4$$

$$\begin{array}{r} +2 \quad +2 \\ \hline 5 \cdot \frac{x}{5} = -2 \cdot 5 \\ x = -10 \end{array}$$

$$13. 1 - 10m = 121$$

$$\begin{array}{r} -1 \quad -1 \\ \hline -10m = 120 \\ \frac{-10}{-10} \quad \frac{120}{-10} \\ m = -12 \end{array}$$

$$14. 73 = -7 + 4b$$

$$\begin{array}{r} +7 \quad +7 \\ \hline 80 = 4b \\ \frac{80}{4} \quad \frac{4b}{4} \\ 20 = b \end{array}$$

$$15. -2 + \frac{x}{5} = -4$$

$$\begin{array}{r} +2 \quad +2 \\ \hline 5 \cdot \frac{x}{5} = -2 \cdot 5 \\ x = -10 \end{array}$$

$$16. -2\frac{9}{20} = \frac{1}{10} + 3k$$

$$20\left(-\frac{49}{20} = \frac{1}{10} + 3k\right)$$

$$\begin{array}{r} -49 = 2 + 60k \\ -2 \quad -2 \\ \hline -51 = 60k \\ \frac{-51}{60} = \frac{60k}{60} \quad x = -\frac{17}{20} \end{array}$$

$$17. -23.74 = -8.2 + 4.2p$$

$$\begin{array}{r} +8.2 \quad +8.2 \\ \hline -15.54 = 4.2p \\ \frac{-15.54}{4.2} \quad \frac{4.2p}{4.2} \\ -3.7 = p \end{array}$$

$$18. -10.05 = \frac{n}{6} - 8.9$$

$$\begin{array}{r} +8.9 \quad +8.9 \\ \hline 6 \cdot -1.15 = \frac{n}{6} \cdot 6 \\ -6.9 = n \end{array}$$

MATH 7+ ONLY

$$19. -6x^3 = 162$$

$$\begin{array}{r} -6 \quad -6 \\ \hline 3\sqrt[3]{x^3} = 3\sqrt[3]{-27} \\ x = -3 \end{array}$$

MATH 7+ ONLY

$$20. \sqrt{x^2} = \sqrt{121}$$

$$x = \pm 11$$

Answers	
11.	<u>-11</u>
12.	<u>-10</u>
13.	<u>-12</u>
14.	<u>20</u>
15.	<u>-10</u>
16.	<u>$-\frac{17}{20}$</u>
17.	<u>-3.7</u>
18.	<u>-6.9</u>
19.	<u>-3</u>
20.	<u>± 11</u>