

| Problem and Incorrect Solution | Explanation of Errors Made (some have more than one mistake) | Correct Solution (show all work) |
| :---: | :---: | :---: |
| $\begin{array}{r} 2 x-2=14 \\ -2=-2 \end{array}$ |  |  |
| $\frac{2 x}{2}=\frac{12}{2}$ |  |  |
| $x=6$ |  |  |
| $5 y+(-5)=\begin{aligned} & 10 \\ & -5 \end{aligned}$ |  |  |
| $\frac{5 y}{5} \quad=\frac{5}{5}$ |  |  |
|  |  |  |
| $\begin{array}{r} x \\ \frac{x}{6}+3=-18 \\ -3 \quad-3 \\ \hline \end{array}$ |  |  |
| $\begin{aligned} 6 \bullet \frac{x}{6} & =-15 \bullet 6 \\ x & =-90 \end{aligned}$ |  |  |
| $4-2 x=-2$ |  |  |
| $+4 \quad+4$ |  |  |
| $\frac{2 x}{2}=\frac{2}{2}$ |  |  |
|  |  |  |


| Problem and Incorrect Solution | Explanation of Errors Made (some have more than one mistake) | Correct Solution (show all work) |
| :---: | :---: | :---: |
| $\begin{aligned} -2(8 m+8) & =-16 \\ -16 m+16= & -16 \\ -16 & -16 \end{aligned}$ |  |  |
| $\begin{aligned} -\frac{-16 m}{16} & =\frac{-32}{16} \\ m & =-2 \end{aligned}$ |  |  |
| $\begin{aligned} 5(1+4 h)+2 h & =27 \\ 5+20 h+2 h & =27 \\ \frac{27 h}{27} & =27 \\ h & =1 \end{aligned}$ |  |  |
| $\begin{aligned} -2(x-8)+4 x & =-12 \\ -2 x-16+4 x & =-12 \\ -2 x-16+4 x & =-12 \\ -2 x-16 & =-12 \\ +16 & +16 \\ \hline \frac{-2 x}{2} & =\frac{4}{2} \\ x & =2 \end{aligned}$ |  |  |


| Problem and Incorrect Solution | Explanation of Errors Made (some have more than one mistake) | Correct Solution (show all work) |
| :---: | :---: | :---: |
| $\begin{array}{r} 2 x-2=14 \\ -2=-2 \end{array}$ | Subtracted 2 from both sides instead of adding | $x=8$ |
| $\frac{2 x}{2}=\frac{12}{2}$ |  |  |
| $x=6$ |  |  |
| $5 y+(-5)=\begin{array}{r}10 \\ -5\end{array}$ | Subtracted 5 from both sides instead of adding | $x=3$ |
| $\frac{5 y}{5} \quad=\frac{5}{5}$ |  |  |
| $y=1$ |  |  |
| $\begin{array}{r} \frac{x}{6}+3=-18 \\ -3 \quad-3 \\ \hline \end{array}$ | Did not add -18 + (-3) | $x=-126$ |
| $\begin{aligned} 6 \bullet \frac{x}{6} & =-15 \bullet 6 \\ x & =-90 \end{aligned}$ |  |  |
| $4-2 x=-2$ | - Added 4 to both sides <br> - Did not bring down "negative" with the two <br> - $2 / 2$ is not 6 | $x=-3$ |
| $+4+4$ |  |  |
| $2 x=2$ |  |  |
| $\begin{aligned} & 2 \\ & x=6 \end{aligned}$ |  |  |


| Problem and Incorrect Solution | Explanation of Errors Made (some have more than one mistake) | Correct Solution (show all work) |
| :---: | :---: | :---: |
| $\begin{aligned} -2(8 m+8) & =-16 \\ -16 m+16 & =-16 \\ -16 & -16 \\ \hline \frac{-16 m}{16} & =\frac{-32}{16} \\ m & =-2 \end{aligned}$ | $\cdot-2(8)=-16$ <br> - Did not divide both sides by -16 | $\mathrm{m}=0$ |
| $\begin{aligned} 5(1+4 h)+2 h & =27 \\ 5+20 h+2 h & =27 \\ \frac{27 h}{27} & =27 \\ h & =1 \end{aligned}$ | Combined unlike terms | $h=1$ <br> (still get same answer!) |
| $\begin{aligned} -2(x-8)+4 x & =-12 \\ -2 x-16+4 x & =-12 \\ -2 x-16+4 x & =-12 \\ -2 x-16 & =-12 \\ +16 & +16 \\ \hline \frac{-2 x}{2} & =\frac{4}{2} \\ x & =2 \end{aligned}$ | $\begin{aligned} & \cdot-2(-8)=+16 \\ & \cdot-2 x+4 x=+2 x \end{aligned}$ <br> - Did not divide by -2 | $x=-14$ |



