

Spot the mistake

Question 1	Your corrections
Solve $x + 4 = 12$	Solve $x + 4 = 12$
$ \begin{array}{r} x + 4 = 12 \\ + 4 \quad + 4 \\ \hline x = 16 \end{array} $	
What mistakes were made?	
Why do you think these mistakes were made?	

Question 2	Your corrections
Solve $4x = 20$	Solve $4x = 20$
$ \begin{array}{r} 4x = 20 \\ - 4 \quad - 4 \\ \hline x = 16 \end{array} $	
What mistakes were made?	
Why do you think these mistakes were made?	

Question 3	Your corrections
Solve $\frac{x}{4} = 12$	Solve $\frac{x}{4} = 12$
$\frac{x}{4} = 12$ $\div 4 \qquad \div 4$ $x = 3$	
What mistakes were made?	
Why do you think these mistakes were made?	

Question 4	Your corrections
Solve $4x + 2 = 12$	Solve $4x + 2 = 12$
$4x + 2 = 12$ $\div 4 \qquad \div 4$ $x + 2 = 3$ $- 2 \quad - 2$ $x = 1$	
What mistakes were made?	
Why do you think these mistakes were made?	

Question 5	Your corrections
Solve $4(x + 2) = 12$	Solve $4(x + 2) = 12$
$4(x + 2) = 12$ $4x + 2 = 12$ $\quad -2 \quad -2$ $4x = 10$ $\div 4 \quad \div 4$ $x = 2.5$	
What mistakes were made?	
Why do you think these mistakes were made?	

Question 6	Your corrections
Solve $4 - 2x = 12$	Solve $4 - 2x = 12$
$4 - 2x = 12$ $\quad -4 \quad -4$ $2x = 8$ $\div 2 \quad \div 2$ $x = 4$	
What mistakes were made?	
Why do you think these mistakes were made?	

Question 7	Your corrections
Solve $2x + 8 = 4x + 2$	Solve $2x + 8 = 4x + 2$
$ \begin{array}{r} 2x + 8 = 4x + 2 \\ - 2x \\ 8 = 4x + 2 \\ - 2 \quad - 2 \\ 6 = 4x \\ \div 4 \quad \div 4 \\ 1.5 \text{ or } 1\frac{1}{2} = x \end{array} $	
What mistakes were made?	
Why do you think these mistakes were made?	

Question 8	Your corrections
Solve $12 - 4x = 5x - 6$	Solve $12 - 4x = 5x - 6$
$ \begin{array}{r} 12 - 4x = 5x - 6 \\ - 4x \quad - 4x \\ 12 = x - 6 \\ + 6 \quad + 6 \\ 18 = x \text{ or } x = 18 \end{array} $	
What mistakes were made?	
Why do you think these mistakes were made?	