

Solving Equations Review Homework

Name _____

Do 2 out of the 4 Levels. Choose WISELY

Period _____

Level One:

1. $34 + x = 53$

2. $6 = n - 17$

3. $d + 26 = 43$

4. $\frac{b}{8} = 9$

5. $48 = 6p$

6. $\frac{p}{4} = 28$

Level Two:

7. $4 + x - 16 = 22$

8. $60 = 12 + n + 17$

9. $4x + 3x - 2x = 25$

10. $39 = 6n - n + 8n$

Level Three: Remember UNDO +/- AND THEN UNDO •/+

11. $2x + 8 = 14$ Check:	12. $4x - 5 = 19$ Check:
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13. $\frac{x}{4} + 8 = 10$ Check:	14. $\frac{x}{8} - 5 = 1$ Check:
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Level Four:

7. $5(x + 5) = 80$ Check:	8. $3x - x + 6 = 34$ Check:
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Name Key

Period _____

Do 2 out of the 4 Levels. Choose WISELY

Level One:

1. $34 + x = 53$ $\begin{array}{r} \cancel{34} + x = 53 \\ -34 \quad -34 \\ \hline x = 19 \end{array}$	2. $6 = n - 17$ $\begin{array}{r} 6 = n - 17 \\ +17 \quad +17 \\ \hline 23 = n \end{array}$	3. $d + 26 = 43$ $\begin{array}{r} d + 26 = 43 \\ -26 \quad -26 \\ \hline d = 17 \end{array}$
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4. $\frac{b}{8} = 9$ $\begin{array}{r} \frac{b}{8} = 9 \\ \cdot 8 \quad \cdot 8 \\ \hline b = 72 \end{array}$	5. $48 = 6p$ $\begin{array}{r} 48 = 6p \\ \div 6 \quad \div 6 \\ \hline 8 = p \end{array}$	6. $\frac{p}{4} = 28$ $\begin{array}{r} \frac{p}{4} = 28 \\ \cdot 4 \quad \cdot 4 \\ \hline p = 112 \end{array}$
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Level Two:

7. $(4) + x(-16) = 22$ $\begin{array}{r} x - 12 = 22 \\ +12 \quad +12 \\ \hline x = 34 \end{array}$	8. $60 = (12) + n(+17)$ $\begin{array}{r} 60 = n + 12 \\ -12 \quad -12 \\ \hline 48 = n \end{array}$
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9. $4x + 3x - 2x = 25$ $\begin{array}{r} 5x = 25 \\ \div 5 \quad \div 5 \\ \hline x = 5 \end{array}$	10. $39 = 6n - n + 8n$ $\begin{array}{r} 39 = 13n \\ \div 13 \quad \div 13 \\ \hline 3 = n \end{array}$
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Level Three: Remember UNDO +/- AND THEN UNDO •/÷

<p>11. $2x + 8 = 14$</p> $\begin{array}{r l} \cancel{+8} & -8 \\ \hline 2x & = 6 \\ \cancel{\div 2} & \div 2 \\ \hline \boxed{x = 3} \end{array}$ <p>Check:</p> <p>P: $2x + 8 = 14$</p> <p>S: $2 \cdot 3 + 8 = 14$</p> <p>S: $6 + 8 = 14$</p> <p>$14 = 14 \checkmark$</p>	<p>12. $4x - 5 = 19$</p> $\begin{array}{r l} \cancel{+5} & +5 \\ \hline 4x & = 24 \\ \cancel{\div 4} & \div 4 \\ \hline \boxed{x = 6} \end{array}$ <p>Check:</p> <p>P: $4x - 5 = 19$</p> <p>S: $4 \cdot 6 - 5 = 19$</p> <p>S: $24 - 5 = 19$</p> <p>$19 = 19 \checkmark$</p>
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<p>13. $\frac{x}{4} + 8 = 10$</p> $\begin{array}{r l} \cancel{-8} & -8 \\ \hline \frac{x}{4} & = 2 \\ \cancel{\cdot 4} & \cdot 4 \\ \hline \boxed{x = 8} \end{array}$ <p>Check:</p> <p>P: $\frac{x}{4} + 8 = 10$</p> <p>S: $\frac{8}{4} + 8 = 10$</p> <p>S: $2 + 8 = 10$</p> <p>$10 = 10 \checkmark$</p>	<p>14. $\frac{x}{8} - 5 = 1$</p> $\begin{array}{r l} \cancel{+5} & +5 \\ \hline \frac{x}{8} & = 6 \\ \cancel{\cdot 8} & \cdot 8 \\ \hline \boxed{x = 48} \end{array}$ <p>Check:</p> <p>P: $\frac{x}{8} - 5 = 1$</p> <p>S: $\frac{48}{8} - 5 = 1$</p> <p>S: $6 - 5 = 1$</p> <p>$1 = 1 \checkmark$</p>
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Level Four:

<p>7. $5(x + 5) = 80$</p> $\begin{array}{r l} \cancel{-25} & -25 \\ \hline 5x + 25 & = 80 \\ \cancel{\div 5} & \div 5 \\ \hline \boxed{x = 11} \end{array}$ <p>Check:</p> <p>P: $5(x + 5) = 80$</p> <p>S: $5(11 + 5) = 80$</p> <p>S: $5 \cdot 16 = 80$</p> <p>$80 = 80 \checkmark$</p>	<p>8. $3x - x + 6 = 34$</p> $\begin{array}{r l} \cancel{-6} & -6 \\ \hline 2x + 6 & = 34 \\ \cancel{\div 2} & \div 2 \\ \hline \boxed{x = 14} \end{array}$ <p>Check:</p> <p>P: $3x - x + 6 = 34$</p> <p>S: $3(14) - 14 + 6 = 34$</p> <p>S: $42 - 14 + 6 = 34$</p> <p>$28 + 6 = 34$</p> <p>$34 = 34 \checkmark$</p>
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