

Solving Equations: Important concepts:

- PCMMD. Use only one column. Keep right half of paper free for scrap work and corrections. **Check off each step as you complete it!**
- Distributive Property: $-(x - 2)$ Multiply everything inside parenthesis by the negative sign. This example simplifies to $-x + 2$.
- Answer must be a positive x ; if you have a negative x , multiply or divide both sides by -1 .

Text p. 84 #20 – 35

- Equations may result in
 - * One solution ($x = \dots$)
 - * No solution ($a = b$, a and b are two different constants -- False statement)
 - * An identity ($a = a$, a is a constant)

Text pp. 98, 99

- When the coefficient is a fraction, multiply it by its reciprocal, to get $+x = \dots$

E.g. $-\frac{2}{3}x = 12$, multiply both sides by $-\frac{3}{2}$

E.g. $-\frac{x}{3} = 4$, multiply both sides by -3

WB p. 110

- Clear equations of fractions and decimals before beginning to solve the equation.
(multiply each term by a common multiple or by a power of 10) **WB p. 114, 125 Text p. 90, 91**