

Unit 8 Solving Equations & Inequalities

8.0 Equation Solving With Integers

Recall: To **solve** an equation means to find the value of the variable which satisfies the equation
[Reviewed in 6.0 already]

Ex. Solve: $2x + 6 = 20$

Equations with Variable on Both Sides

Ex. Solve:

a) $8x = 3x - 15$

b) $6x - 5 = 2x + 7$

c) $-5 - 8t = -9t - 7$

d) $-5m - 2 = 3m - 2$

e) $z - 2 = 2z - 4$

Unsimplified Equations

Ex. Solve:

a) $3(a - 3) + 7 = 5a - 8 - 4a$

b) $7 - 3(5t - 10) = 67$

c) $6p - (5p + 5) = -8 - 2(p + 12)$