

BC Math 9 Multi-Step Equations

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- Multi-step one variable linear equations
- Includes distribution, variables on both sides of the equation, and collecting like terms
- Includes rational coefficients, constants, and solutions
- Solving and verifying $1 + 2x = 3 - \frac{2}{3}(x + 6)$
- Solving symbolically and pictorially

1. $2x = 8$

2. $12 = -3a$

3. $\frac{x}{3} = 5$

4. $\frac{x}{2} = \frac{3}{5}$

5. $\frac{2}{x} = 5$

6. $\frac{2}{x+1} = \frac{3}{4}$

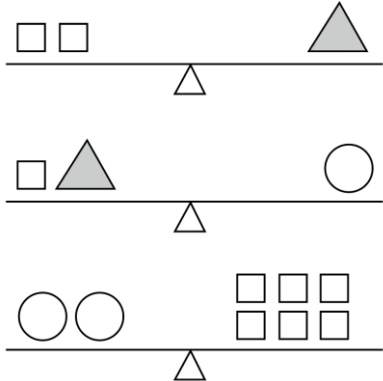
7. $\frac{5}{-7} = \frac{1}{2-3x}$

8. $2 - x = 3(x + 1)$

9. $2x + \frac{x}{2} + 1 = 5$

10. $1 + 2x = 3 - \frac{2}{3}(x + 6)$

11. Challenge 1: If the weight one square is 2 kg. How heavy is the weight of a dozen circles?



12. Challenge 2:

$$\left(\frac{2}{3}\right)^2 - \left(-\frac{x}{3}\right) \div \frac{2x}{5} - \frac{(-1)^0}{\sqrt{\frac{1}{121}}} = \frac{1}{\frac{1}{x}} - 0!$$