

Recall the three rules:

1. Isolate the variable
2. Maintain equality
3. Reverse BEDMAS (for two-step equations)

Practice!

1) $\frac{x}{7} = 4$

2) $\frac{m}{-3} = 8$

3) $\frac{x}{7} - 5 = 4$

4) $3 + \frac{x}{7} = -4$

5) One-quarter of the marbles in a bag are blue. There are 5 blue marbles in the bag. How many marbles are in the bag?

a) Choose your variables and write *let* statements to indicate what you are solving for.

b) Write an equation for this situation.

c) Solve the equation algebraically.

d) Verify your solution.

6) One-half of the class went to watch the play. During the play, 2 students had to go back to class. At the end of the play, there were 12 students left watching the play. How many students are in the class?

a) Choose your variables and write *let* statements to indicate what you are solving for.

b) Write an equation for this situation.

c) Solve the equation algebraically.

d) Verify your solution.