

P.S. #3.4 - Solving Multi-Step Equations

Name: _____ Class: _____

You must persevere.

1.) $-g + 2(3 + g) = -4(g + 1) + 25$

2.) $x - (4x - 7) = 5x - (x - 56)$

3.) $6(2x - 8) + 3 = 15$

4.) $11(2 - x) = 17 - 6x$



5.) $\frac{4}{3}x - 6 = \frac{2}{3}x - 2$

6.) $8(x + 2) - 3(x - 4) = 6(x - 7) + 8$

7.) $\frac{x + 3}{5} - \frac{3x}{10} = 7$

8.) $\frac{a}{10} + \frac{3a}{5} = \frac{7}{2}$

9.) Mateo is going to join a golf club. He must pay a \$50 entrance fee to join the club, and it costs \$5 per course. If he has \$130 to spend on golf this year, how many courses can he go through?

10.) Mackenzie has 3 times as many pens as she has pencils. She has 60 total. How many pencils does she have?



11.)
$$\frac{6x - 7}{4} + \frac{3x - 5}{7} = \frac{5x + 28}{28}$$

12.) How many solutions does the equation $2(x + 5) + 3x = 7x - 7 - 2x + 17$

Answers:

1.) 3

2.) -7

3.) 5

4.) 1

5.) 6

6.) 62

7.) -64

8.) 5

9.) 16 courses

10.) 15 pencils