# 6.1 Equations with Like Terms

NOTES

MATH 7

**Write your questions here!**

One of the best ways to solve equations is by _____

_____ are terms whose variables are the same.

Review: How do we combine like terms? (You can Rewatch lesson 4.2 if you forgot!)

Example 1: **2a + 3b – 4a – 7b**

Example 2: **– 19 – 3x + x +19**

You try these two:

Example 3: **y – 12 + 43 – 5y**

Example 4: **– 2w + 7g +2w – 7g**

How can Combining Like Terms help us when solving equations?

Example 5: **4x + 3x +5 =**

Example 6: **6 + 2d + 6d = 18**

Example 7: **– 15 = 5 – 8 – 4h**

Example 8: **6 + 2y + 4 – 3y = -10**


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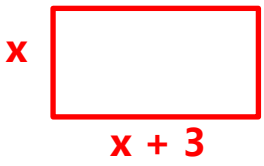
## Let's Word-Problem it up!

Example 9 Find each side if the perimeter is 26 .




**SUMMARY:**

**Now, summarize your notes here!**

## 6.1 Equations with Like Terms

PRACTICE

**Solve the following equations. SHOW ALL STEPS!!!!**

1. $2x + 3x = 10$

2. $7x - 3x = 8$

3. $3t + 2 + 5 = 16$

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| | | |
|---|---|---|
| 4. $-8 = 2 + 4y + y$ | 5. $9 = 4m - 3 + 2m$ | 6. $10 = 3x + 8 - 4$ |
| 7. $p + 3p = -16$ | 8. $15 = -3d - 2d$ | 9. $8 - 2x + 8 - 2x = 20$ |
| 10. $2x - 4 - x = -8$ | 11. $-8 = -10 - 3f + 2$ | 12. $-400n = 1000 - 200$ |

**MIXED REVIEW. Solve the following one-step and two-step equations.**

| | | |
|---|---|---|
| 13. $6 = 2 - 4y$ | 14. $-2 = \frac{t}{5}$ | 15. $\frac{x}{3} - 3 = 7$ |

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WRAP UP

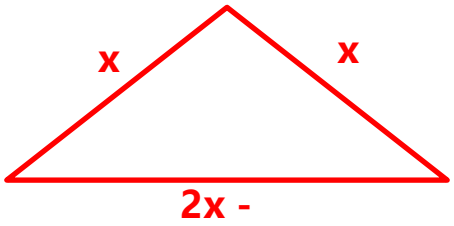
**Solve the following equations. SHOW ALL STEPS!!!!**

16. $-8 = 2 + 2y - 12$

17. $4y + y + 1 = -9$

**For number 18, write an equation to model the situation and then solve it!**

18. The perimeter of the triangle below is 90 inches. Find the value of x. Then, find each side.

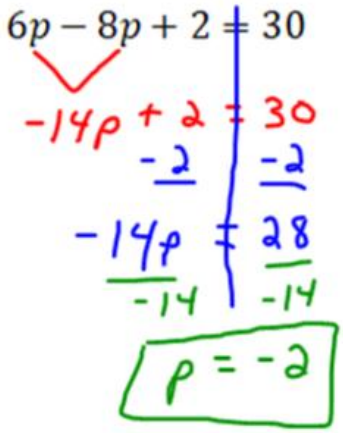



Equation:

Answer:

**EXIT TICKET**

Mr. Brust definitely did this one wrong. Bummer. Circle his mistake, explain why it's wrong, and then solve it correctly. Thanks!

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