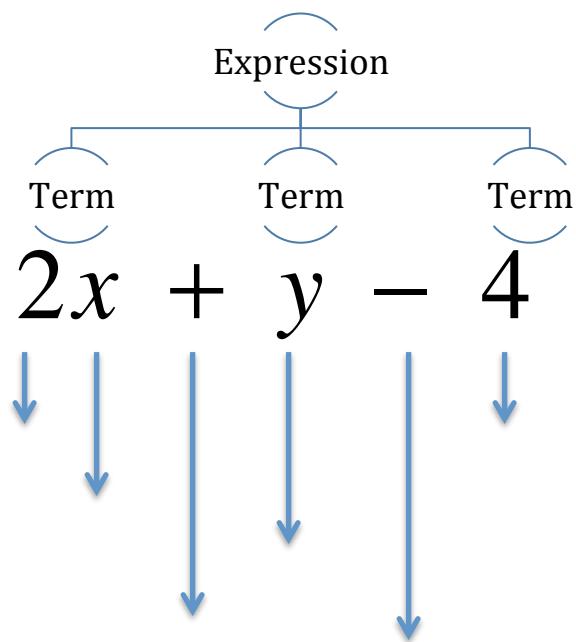


Write your
questions here!



$$2x + 3x =$$



Can we simplify expressions with variables?

$$2x - 5 + 3x$$

$$3x - 2 - 5x + 6$$

ALGEBRA

Write your
questions here!



$$6c + 3d - 4c - d$$



$$5r - 8 + 12r - 20$$

$$-3w + 10 + 12w - 3$$

$$8x - 12y + 6x + 4 + 8y$$

$$5s - 6s^2 + 4 - 3s^2 + s$$

Summarize your notes:

Now,
summarize
your notes
here!

2.2 Adding Like Terms

PRACTICE

Simplify the expression by combining like terms

1. Consider the following family take-away order:



We can write this in Algebra as: $2b + f + d + 3b + 2f + 2d$

2. Suppose that we have bought 5 apples and 6 bananas, but we eat two bananas before putting our fruit into the bowl.



The Algebra is: $5a + 6b - 2b$

3. $2a + 3b + 3a + b$

4. $5b + 4d + 3f - 2b + f - d$

5. $3x + 2x =$

6. $-2y - -4y =$

7. $x + -4x + -3x =$

8. $y + y + -10x =$

9. $-5 + -3x + -10x =$

10. $5y + -9y - 5x + -3x - 2y =$

11. $-7 + 3x - 4 + 2x =$

12. $2a + 3a - 7a - a$

13. $x + -x =$

14. $3y - -10y + 7y =$

15. $6y - 8 + 2y + 5$

16. $9 - 5a + 2 + a$

17. $6r + 2r + 4 - 5r + 1$

18. $3m + 2n + 5m - 10 + 7n$

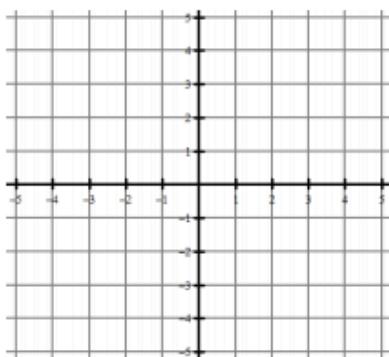
19. $7 + 5w - 4 + 3w + 2$

20. $-7 - 4b - -3b + -6b + 5 =$

GRAPH

Plot the points:

1. A (4, -1) 2. B (-3, 0)

**SKILLZ REVIEW****SIMPLIFY**

3. $\frac{5-8}{-1-8}$

4. $\frac{4-(-1)}{10-0}$

ORDER OF OPERATIONS

5. $3(2)^2 + 2$

6. $12 - 4(3) + 1$

2.2 Adding Like Terms

APPLICATION

1. $5 - 2.1s + 17s$

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

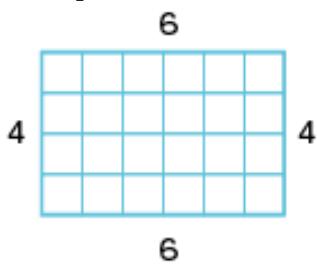
3. $\frac{1}{2}h + 5 + \frac{5}{2}h - 3$

4. $\frac{2}{3} + 4n - 9 - 2n$

Geometry Review

Extending the Lesson

Example



Perimeter = 20 units

Area = 24 square units

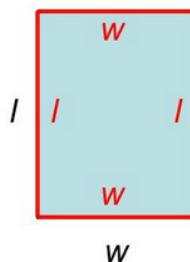
Formula

RECTANGLE

length l and width w

$$P = 2l + 2w$$

$$A = lw$$



Find the perimeter of each rectangle below

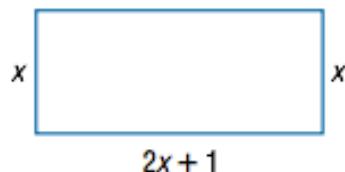
5. 100 yd



6. 48 m



7. Write an algebraic expression for the perimeter of the rectangle below. $2x + 1$

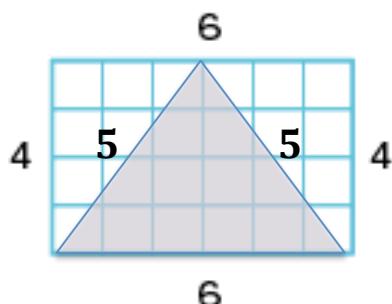


Geometry Review (Part 2)

Extending the Lesson

Area and Perimeter of a Triangle

Example



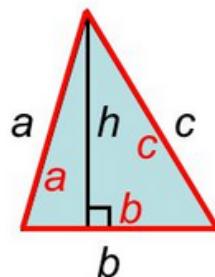
Perimeter = 16 units

Area = 12 square units

Formula

TRIANGLE

side lengths a , b ,
and c , base b ,
and height h

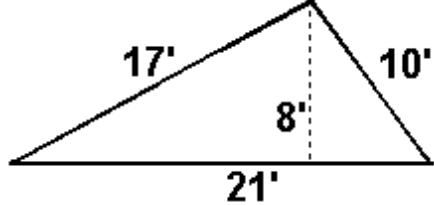


$$P = a + b + c$$

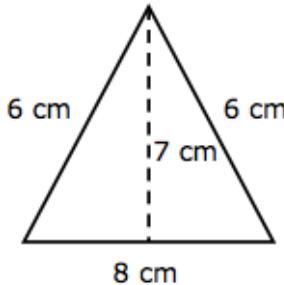
$$A = \frac{1}{2}bh$$

For #1-3, find the perimeter of each triangle below.

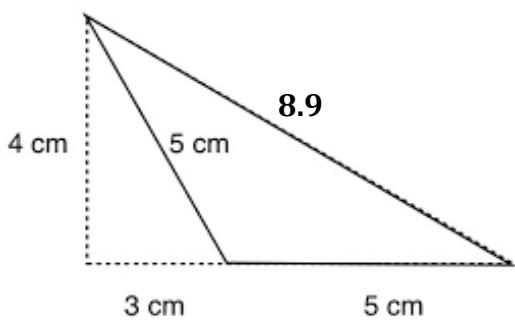
1.



2.



3.



4. Write an algebraic expression for the perimeter and the area of the rectangle below.

