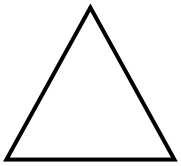
Name: _____ Date: _____ Period: _____

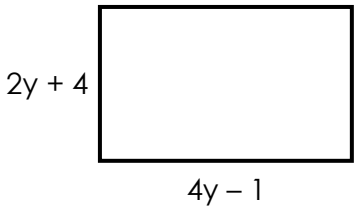
# Perimeter & Equations

***For each situation below, write and solve an equation using the information provided.***

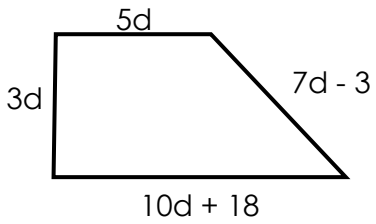
1) The equilateral triangle shown below has a perimeter of 120 meters. Find the value of x.




2) The rectangle shown has side lengths as indicated. If the perimeter is 66 inches, what is the value of y?

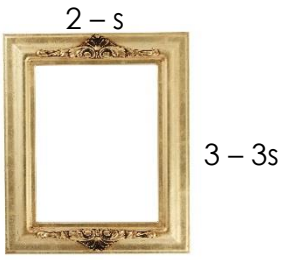



3) The perimeter of the trapezoid below is 315 feet. Find the value of d that makes this possible.




4) Greg is fencing in a rectangular garden with a length of 13 feet. He has 64 feet of fencing and doesn't want any leftover. Find the width of Greg's garden.


5) A rectangular picture frame has side lengths shown. If the perimeter of the frame is 106 centimeters, what does s equal?



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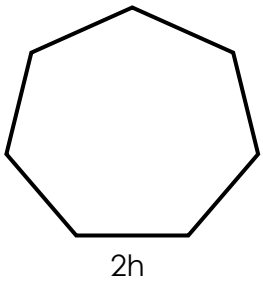
6) A trapezoidal table is shown to the right. Write and solve an equation to find the value of t so that the perimeter of the table is equal to 218 inches.


7) A regular heptagon (7-sided figure where all sides are equal) has perimeter of 322 feet and a side length of 2h.

A) Solve for h.

B) How long is each side?



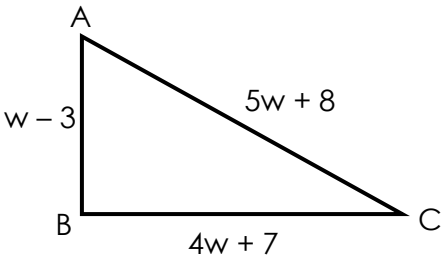

8) The perimeter of triangle ABC (shown below) is 132 inches. Find the length of each side. Write your answers in the appropriate blank.

A. Solve for w:

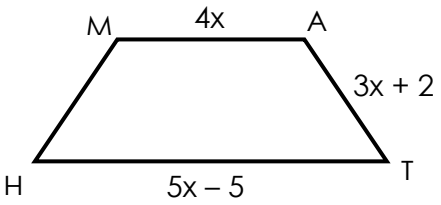
B. Length of AB: _____

C. Length of AC: _____

D. Length of BC: _____




9) Trapezoid MATH below has a perimeter of 194.




A. Length of MA: _____ B. Length of AT: _____

C. Length of HT: _____ D. Length of MH: _____

10) The perimeter of the triangle is 126 units. Find the measure of each side.