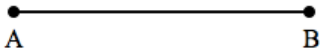
Daily Review #225

NAME _____ **SCORE** _____ / 12

1) Use a compass and straightedge to construct an equilateral triangle on line segment AB.



2) Marta started off with 100 fish in her freezer. Every day someone comes in and takes two fish. Write an equation for how many fish, F, Marta will have after n days. Then use the equation to figure out how many fish she will have after 14 days.

_____

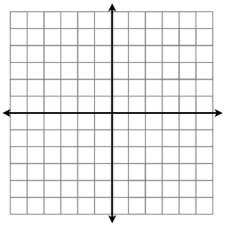
_____

3) Write $2x^2+3x^3+4x^4$ in factored form. _____

4) If $f(x)=3x+1$, how much is $f(-2)$? _____

5) Find coordinates for the midpoint of AB if $A=(-1,5)$ and $B=(3,-7)$. _____

6) Graph the solution set of the equation $4y=-3x+8$ by first rewriting the equation in slope-intercept form (solve for y).



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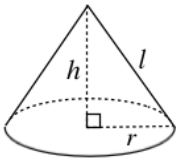
7) A prism has 12 faces, 10 of which are rectangular. What is the name of this solid? _____

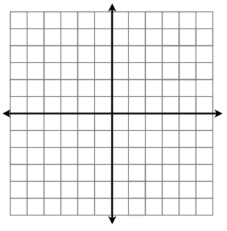
8) The home team has a 60% to win the baseball game tomorrow if it is played. However, there is a 15% chance that the weather will be bad and the baseball game will be cancelled. What is the probability that the home team will win a game tomorrow? _____

9) If $f(x)=3x^2-2x+1$, find the value for $f(1)$. _____

10) The formula for the surface area of a cone is $A=\pi r^2+\pi rl$. The πr^2 is the circle, and the πrl is called the *lateral* area. The l represents the slant height (see diagram at right). The base radius of a cone is 6 inches, and the cone is 8 inches tall. To the nearest square inch, what is the lateral area of the cone? _____



11) Graph the linear equation $2y-4x=10$.



12) Two dogs are similar in proportion to one another and need to go in the cargo hold of an airplane. The large dog fits in a container that is $24\ in.$ high and $34\ in.$ long. If the smaller dog needs a container that is $20\ in.$ high, how long does the container need to be? _____

A) $24\ in.$ B) $29\ in.$ C) $30\ in.$ D) $32\ in.$

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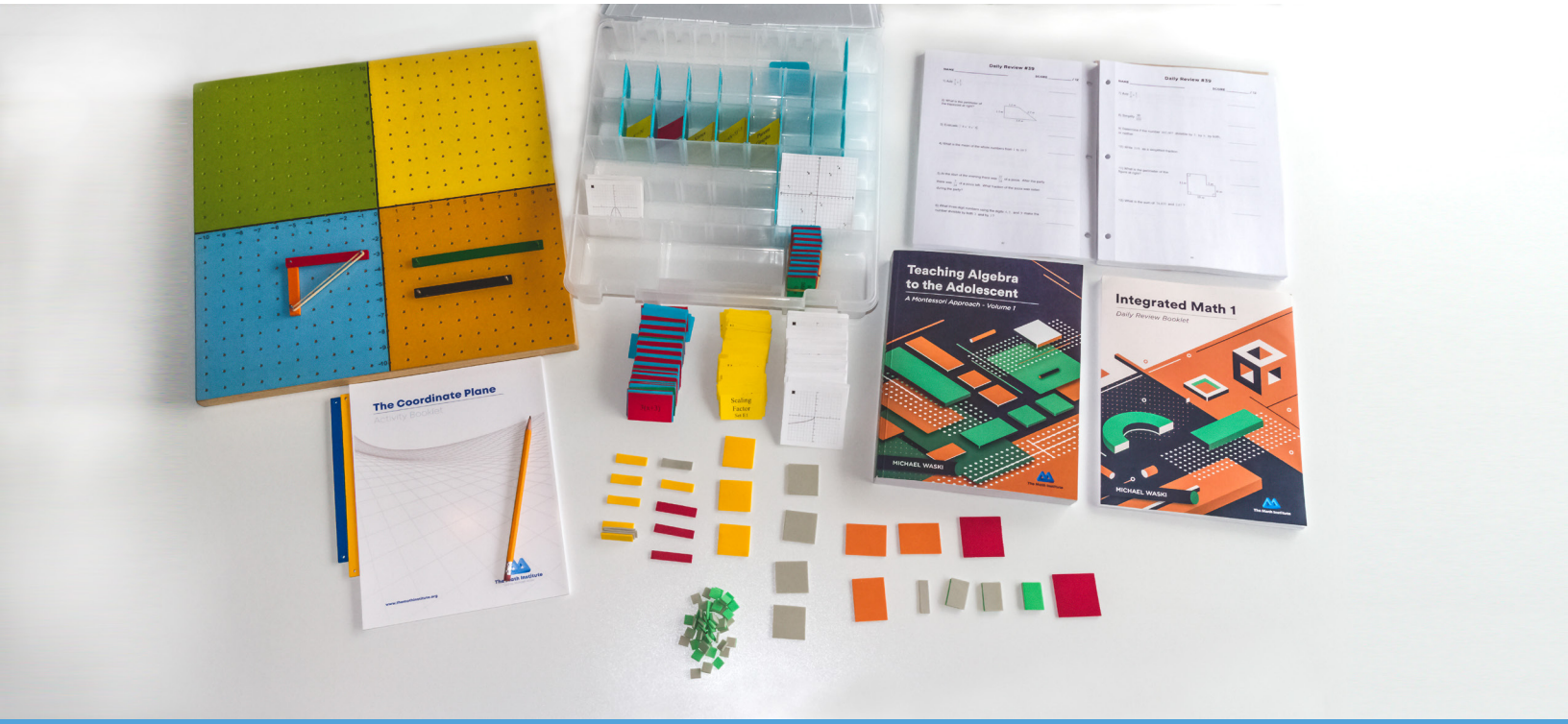
Led by Michael Waski



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