



8th Grade Math

Choice Board #2



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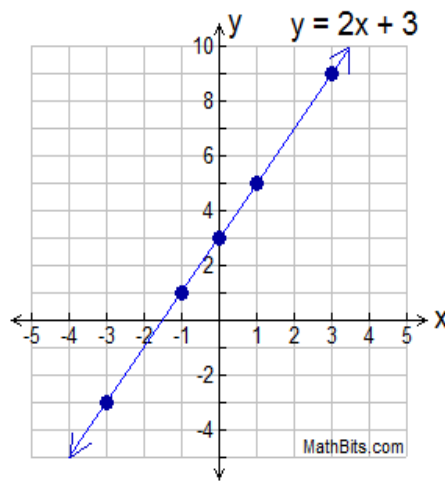
Estimate how many cheeseballs fit on the tray. _____

Estimate a # that's too high _____

Estimate a # that's too low _____

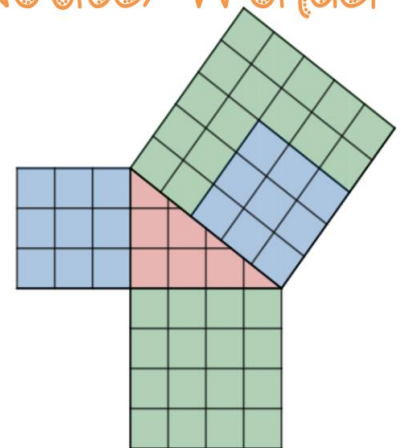
Explain your reasoning: _____

Watch this Khan Academy [lesson](#) on graphing linear equations in slope-intercept form and do the practice at the end.



[Practice](#) the Pythagorean Theorem:

Notice/Wonder



Which One Doesn't Belong?

$5x + 2 = -13$	$-3x - 2 = -3$
$6x - 8 = 4^2$	$4(2x - 3) = 60$

Why?

Solve these puzzles involving [mobiles](#).



You're locked out of your house and the only open window is on the second floor, 20 feet above the ground. You need to borrow a ladder from one of your neighbors. There's a bush along the edge of the house, so you'll have to place the ladder 15 feet from the house. What length of ladder do you need to reach the window?

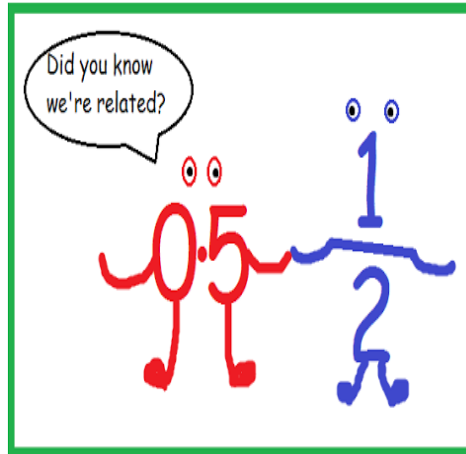


Practice distributive **property**:

Example using the distributive property

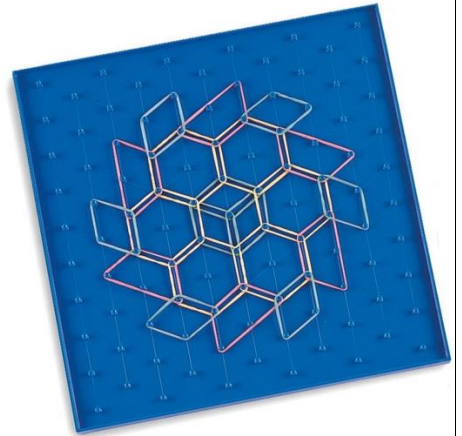
$$\begin{aligned} 2(x+5) &= 2(x) + 2(5) \\ &= 2x + 10 \end{aligned}$$

Practice converting between decimals and fractions:



Review transformations of figures to create a congruent image:

Then **practice** creating your own transformations on a geoboard:



(Cheeseball answer = 286)

The house problem uses the Pythagorean Theorem:

$$a^2 + b^2 = c^2$$

$$15^2 + 20^2 = c^2$$

$$225 + 400 = c^2$$

$$625 = c^2$$

$$25 = c$$