

Ready, Set, Go!



© 2012 www.flickr.com/photos/gwilmore

Ready

Topic: Evaluate exponents

Simplify and evaluate the following.

1. 3^{-2}

2. $(0.5)^{-2}$

3. 2^4

4. 4^{-2}

Write the following expression three different ways (one way can include the simplified value).

5. $(2^3)(4)$

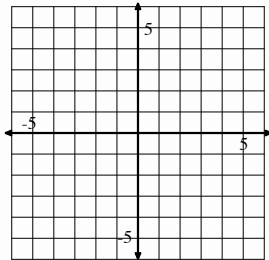
6. $(3^3)(2^3)$

Set

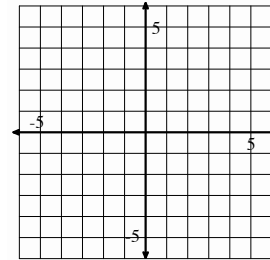
Topic: Solve systems of equations

Solve the following systems of equations using *elimination* of variables, then justify graphically.

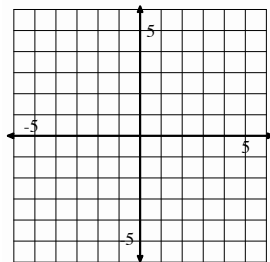
7.
$$\begin{cases} 2x + 0.5y = 3 \\ x + 2y = 8.5 \end{cases}$$



8.
$$\begin{cases} 3x + 5y = -1 \\ x + 2y = -1 \end{cases}$$



9.
$$\begin{cases} 3x + 5y = -3 \\ x + 2y = -\frac{4}{3} \end{cases}$$



10. A 150-yard pipe is cut to provide drainage for two fields. If the length of one piece (a) is three yards less than twice the length of the second piece (b), what are the lengths of the two pieces?

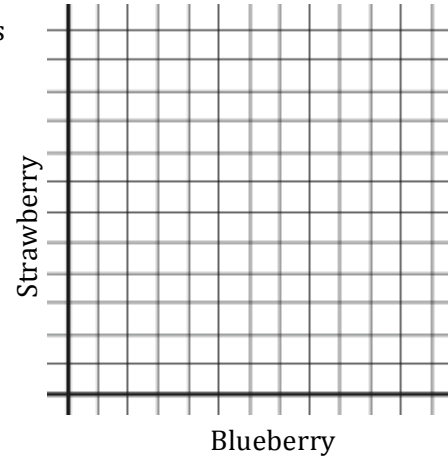


Go

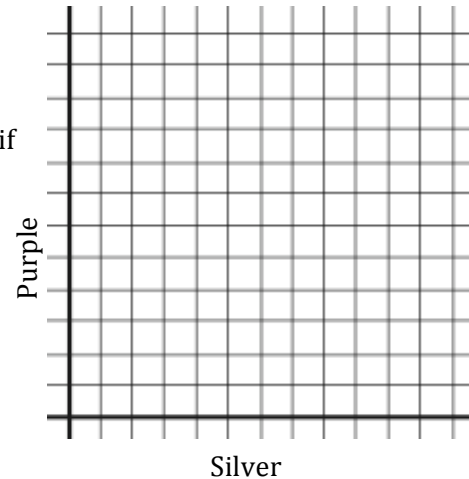
Topic: Graph two variable linear inequalities

Graph the following linear inequalities on the graphs below. Include constraints.

11. Ben has enough money to buy up to eight yogurts. If his favorite flavors are blueberry and strawberry, what are all the possible combinations he can buy? Graph the inequality that shows all possible combinations of his favorite flavors.



12. Peggy is buying a balloon bouquet. Her favorite colors are silver and purple. The silver balloons are \$1 and the purple balloons are \$0.80. Graph an inequality that shows how many of each color balloon she can put in her bouquet if she doesn't spend more than \$20.



Need help? Check out these related videos.

Negative exponents

<http://patrickjmt.com/negative-exponents/><http://www.khanacademy.org/math/algebra/ck12-algebra-1/v/zero--negative--and-fractional-exponents>

Solving systems by elimination

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/v/solving-systems-by-elimination-2>

Solving systems by graphing

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/v/solving-linear-systems-by-graphing>