Created by Emery Hatcher

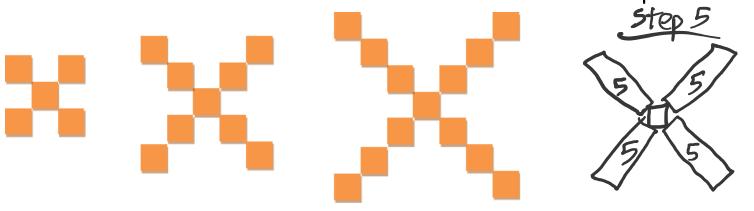
Warmup
$$8/\left(\sqrt{23}\right)^2$$

***GO BACK AND DO TOUGH PATTERNS

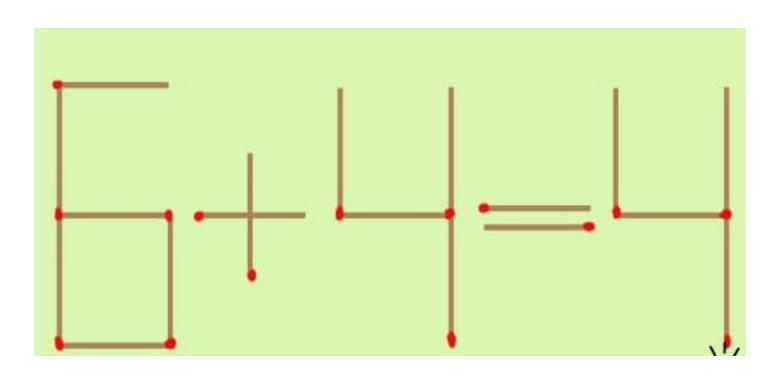
TUESDAY!!! (Early finishers – try Friday)****

Tough Patterns Tuesday

- 1. Draw step #5.
- 2. Complete the table. # hocks = 4n+1
- 3. Write an equation for the pattern.



Step number (n)	1	2	3	4	5	10	15	25
Number of shaded squares (s)	5	9	13	17	21	41	61	101



Check Homework

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When two simple inequalities are combined into one statement by the words AND or OR, the result is called a **compound inequality**.

Task #6

Math as Another Language!

Translate these phrases into "math language." Graph the solution.



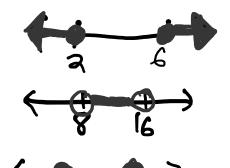


All real numbers less than 2 OR greater than 6

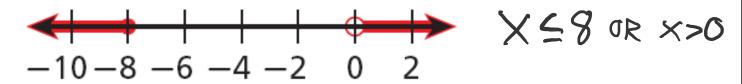
All real numbers less than or equal to 2 OR greater than or equal to 6

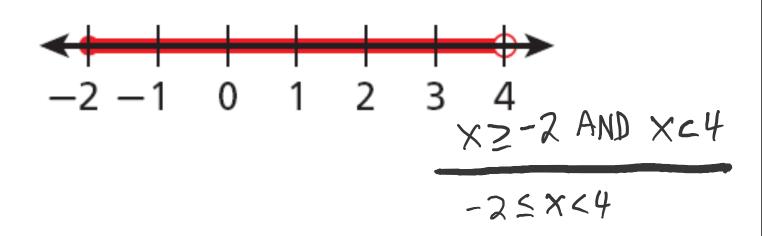
All numbers between 8 and 16

All numbers between 8 and 16 inclusive



Write the compound inequality shown by each graph.





Solve the compound inequality and graph the solutions.



Solve the compound inequality.



Solve the inequality and graph the solutions.

$$2x \le 6 \text{ OR } 3x > 12$$



Solve the compound inequality and graph the solutions.

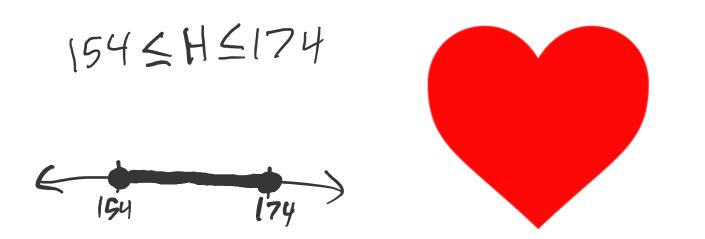
$$\frac{2 + r < 12 \text{ OR } r + 5 > 19}{-2 - 9 - 9}$$

$$\frac{-2}{\sqrt{4}}$$



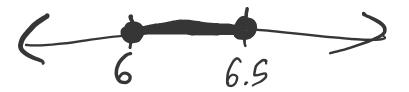
Word Problem Time!

The target heart rate during exercise for a 15 year-old is between 154 and 174 beats per minute inclusive. Write a compound inequality to show the heart rates that are within the target range. Graph the solutions.



The pH level of a popular shampoo is between 6.0 and 6.5 inclusive. Write a compound inequality to show the pH levels of this shampoo. Graph the solutions.

$$6 \leq p \leq 6.5$$



 Ms. Bolus' classroom is ridiculous! It is either less than 60 degrees Fahrenheit or above 80 degrees Fahrenheit every day.





Homework

□ p. 89 (11 – 23)