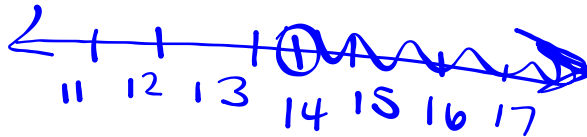


$$\frac{x}{2} - 4 > 3$$

$$\frac{x}{2} + 4 > 3 + 4$$

$$2\left(\frac{x}{2}\right) > (7) \cdot 2$$

$$x > 14$$

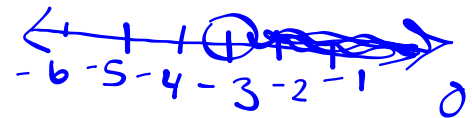


$$-3x - 2 < 7$$

$$-3x + 2 < 7 + 2$$

$$\frac{-3x}{-3} < \frac{9}{-3}$$

$$x > -3$$



$$-3x - 2 < 7$$

$$\frac{-3x}{-3} < \frac{9}{-3}$$

$$-3(-2) - 2$$

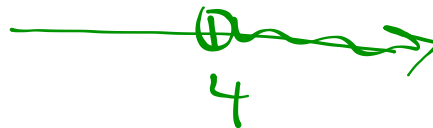
$$\checkmark 4 < 7$$

$$x > -3$$

$$x \geq 4$$



$$x > 4$$

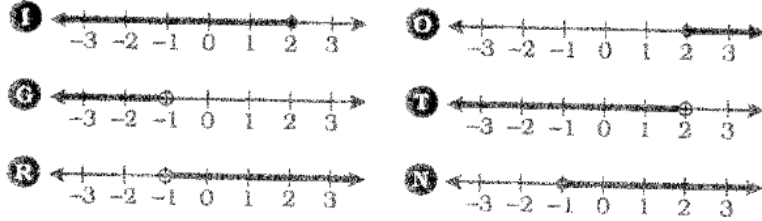


What Is The First Thing You Should Do To Become a Mattress Maker?

For each exercise, write the letter of the answer in the box containing the number of the exercise.

In Exercises 1-6, match the inequality with its graph.

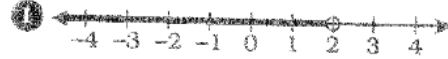
- 1 $x < 2$
- 2 $x \leq 2$
- 3 $x > -1$
- 4 $x \geq -1$
- 5 $-1 > x$
- 6 $2 \leq x$



In Exercises 7-18, solve the inequality. Then graph the solution.

7 $3n + 1 < 10$

8 $5a - 2 \geq 8$



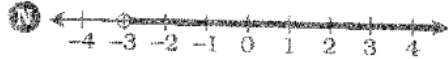
9 $4y + 7 \leq 3$

10 $9k - 2 > -20$



11 $\frac{x}{2} + 15 < 16$

12 $\frac{d}{3} - 8 \geq -10$



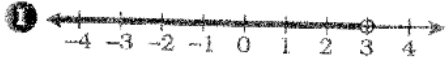
13 $\frac{u}{9} - 4 \leq -4$

14 $6p - 15 < 33$



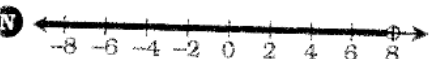
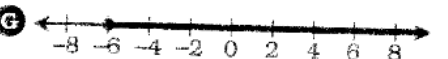
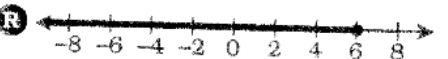
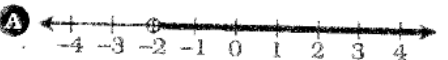
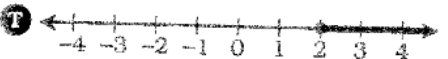
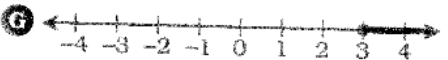
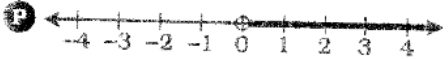
15 $17 \leq 5b + 2$

16 $-23 < 8y + 1$



17 $-6 \geq \frac{x}{8} - 7$

18 $5 < \frac{m}{12} + 5$



15	6	1	13	9	18	3	11	14	5	8	17	10	2	16	7	4	12
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The Pythagorean Theorem and Inequalities:

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PARTNER A:

	1	2	3	4	5	
1	$\frac{x}{4} - 8 = -9$ $2x - 6 = -14$	$-8(6a + 2) = 80$	$-3x - 7 + 8x + 20 = -42$	$2k + 1 = k - 5$	$x + 3 = 2x$	$-5m - 3$
2	$-5(5a + 1) = 45$	$-4x + 5 = -27$ $\frac{x}{-2} - 7 = -11$	$-4(3x + 2) = -20$	$6 + 7n - 4n + 11 = -13$	$48 = -3a + 15a$	$-3a -$
3	$-9x - 4 - 8 + 7x = 10$	$5(7x + 2) = 45$	$\frac{x}{-3} + 4 = 5$ $-7x + 6 = 27$	$3(y - 3) = -15$	$-4c - 3c - 9 + 5c + 6 = 7$	$8x - 4$
4	$2k - 1 = 3k + 5$	$7 + 6n - 11 - 8n = 16$	$-2(v - 5) = 14$	$3n - 6 = 30$ $-8 + \frac{n}{6} = -6$	$-3(2k - 2) = 12$	$4c$
5	$-3x - 1 = -4 - 2x$	$-24 = a - 7a$	$4c + 2c + 4 - 3c + 2 = -9$	$3(5k + 8) = 9$	$10 + \frac{a}{2} = 17$ $-4a + 13 = -43$	$6c$
6	$-m - 3 = -5m + 1$	$-4a + 7 = -7a - 20$	$4x - 17 = -2x + 25$	$c + 4 - 6c = -21$	$8(x + 6) = 72$	$\frac{x}{-8}$

PARTNER B

IXL 8th

V.13 (properties)

x2, x3, x7