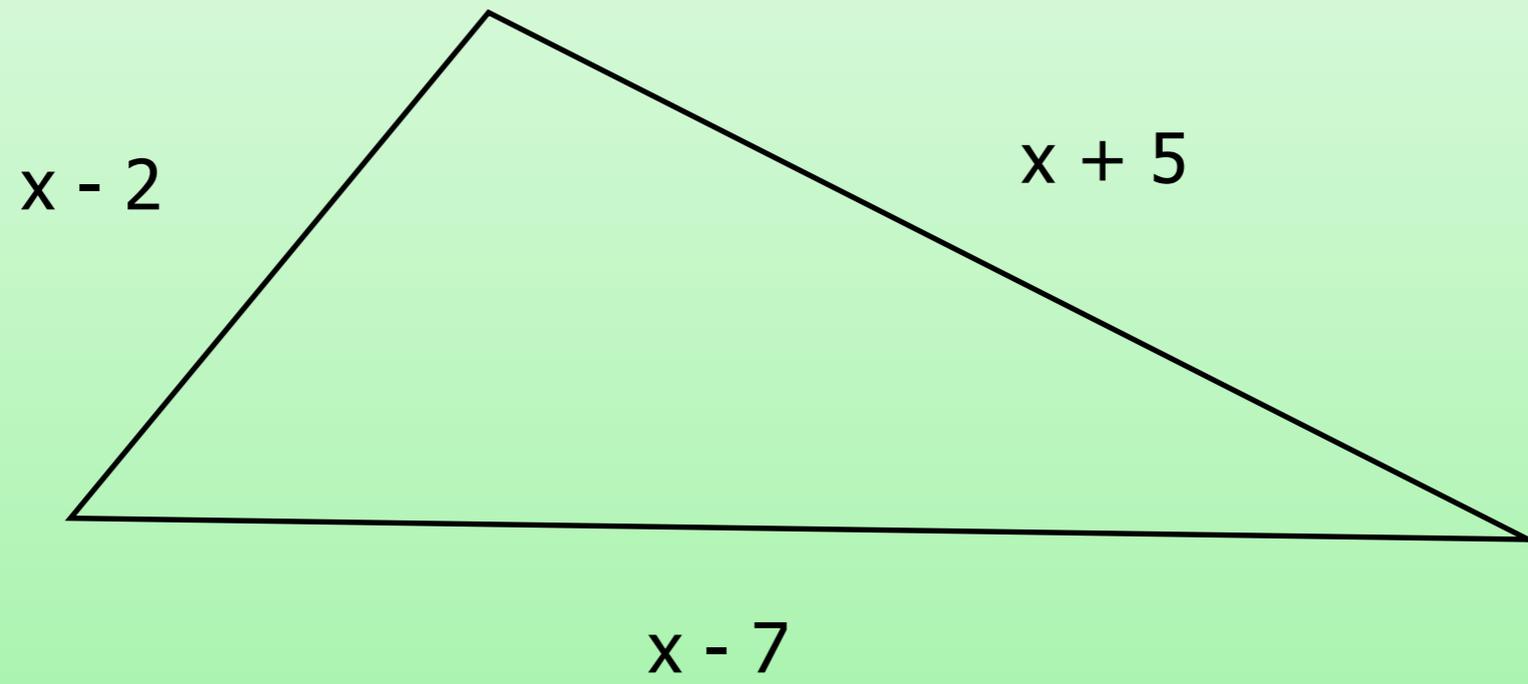


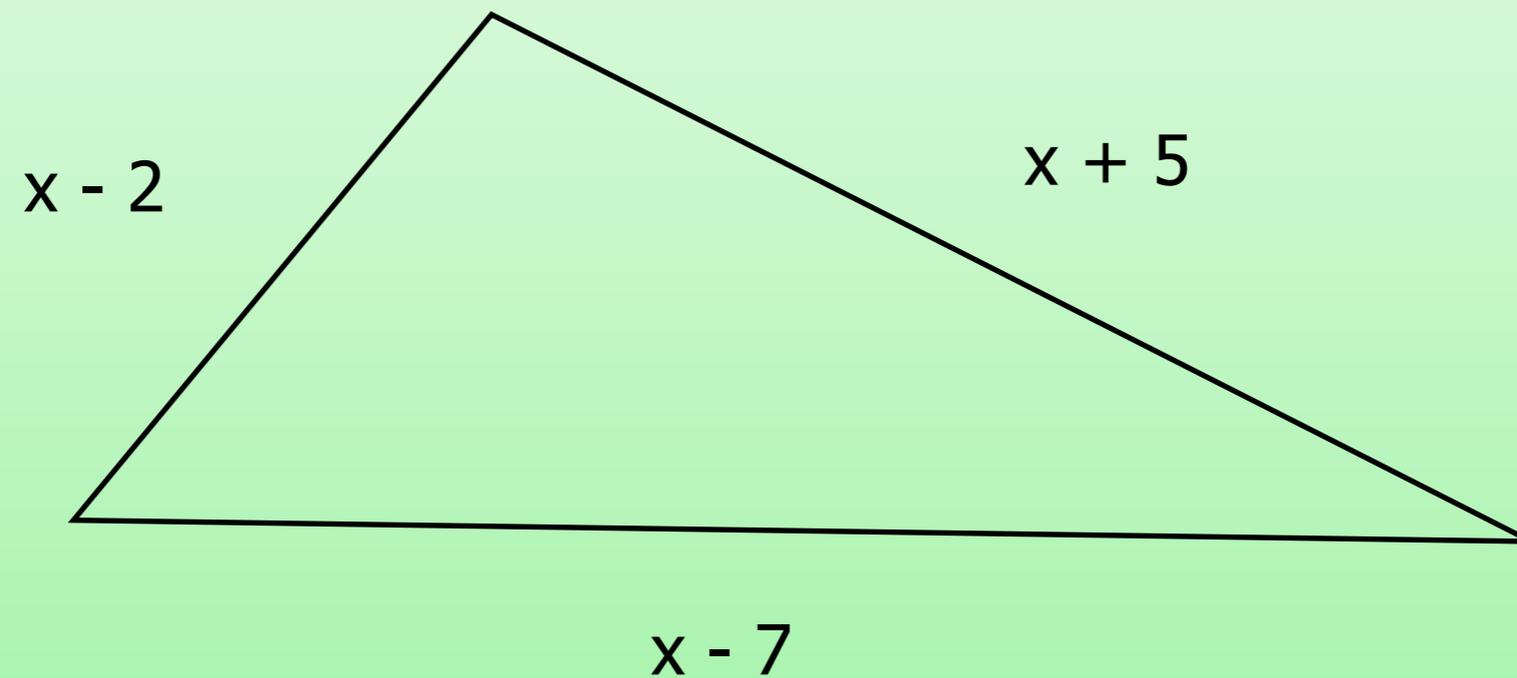
Day 22



$$5x - 7 \leq -6$$

Day 22

1. Opener

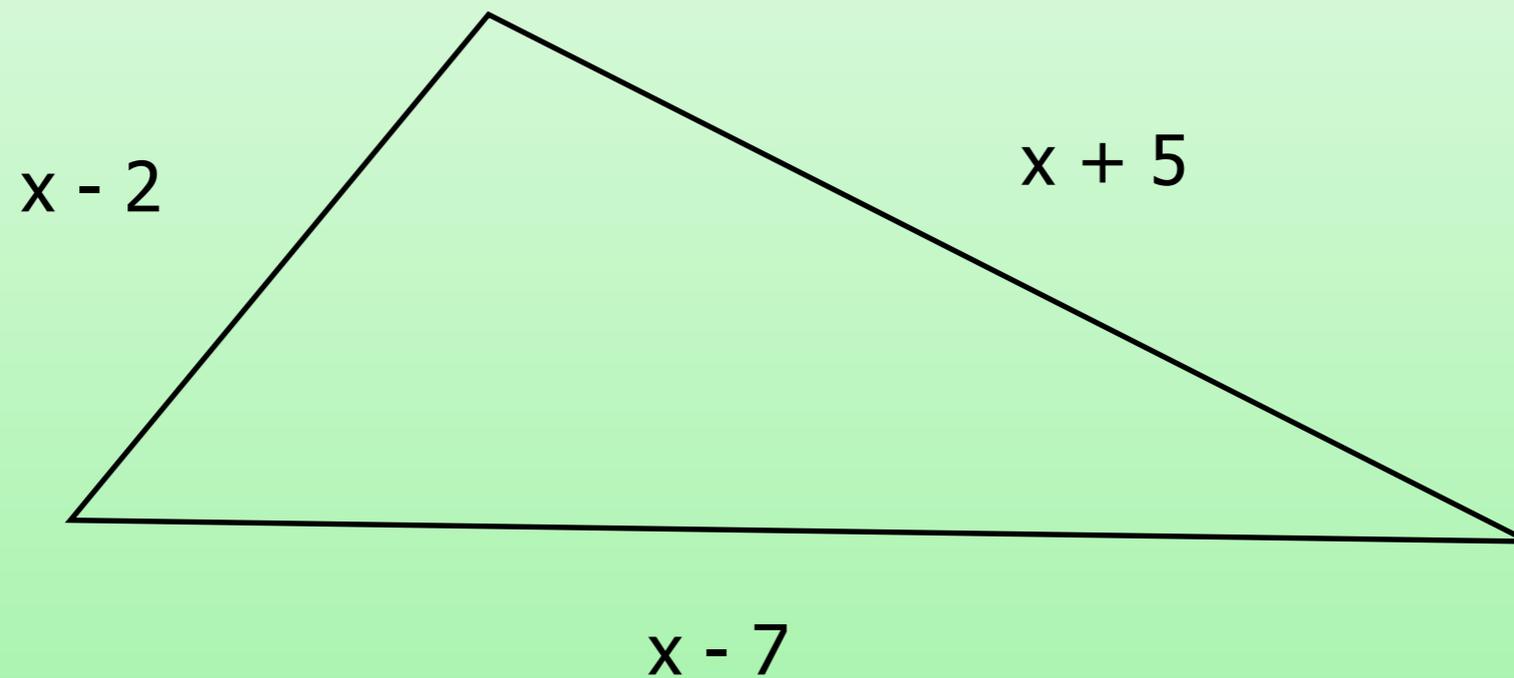


$$5x - 7 \leq -6$$

Day 22

1. Opener

- a) Solve for x if the perimeter of the triangle is 32.

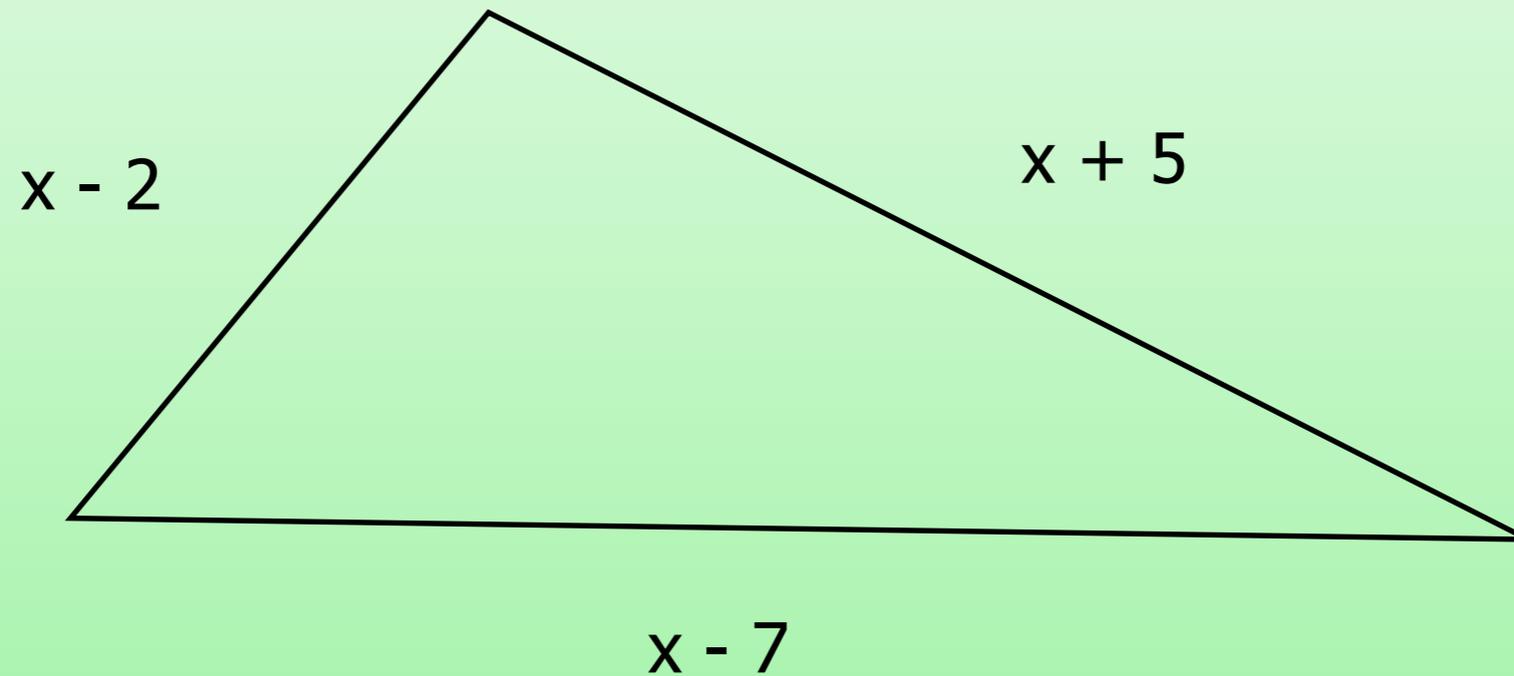


$$5x - 7 \leq -6$$

Day 22

1. Opener

- a) Solve for x if the perimeter of the triangle is 32.

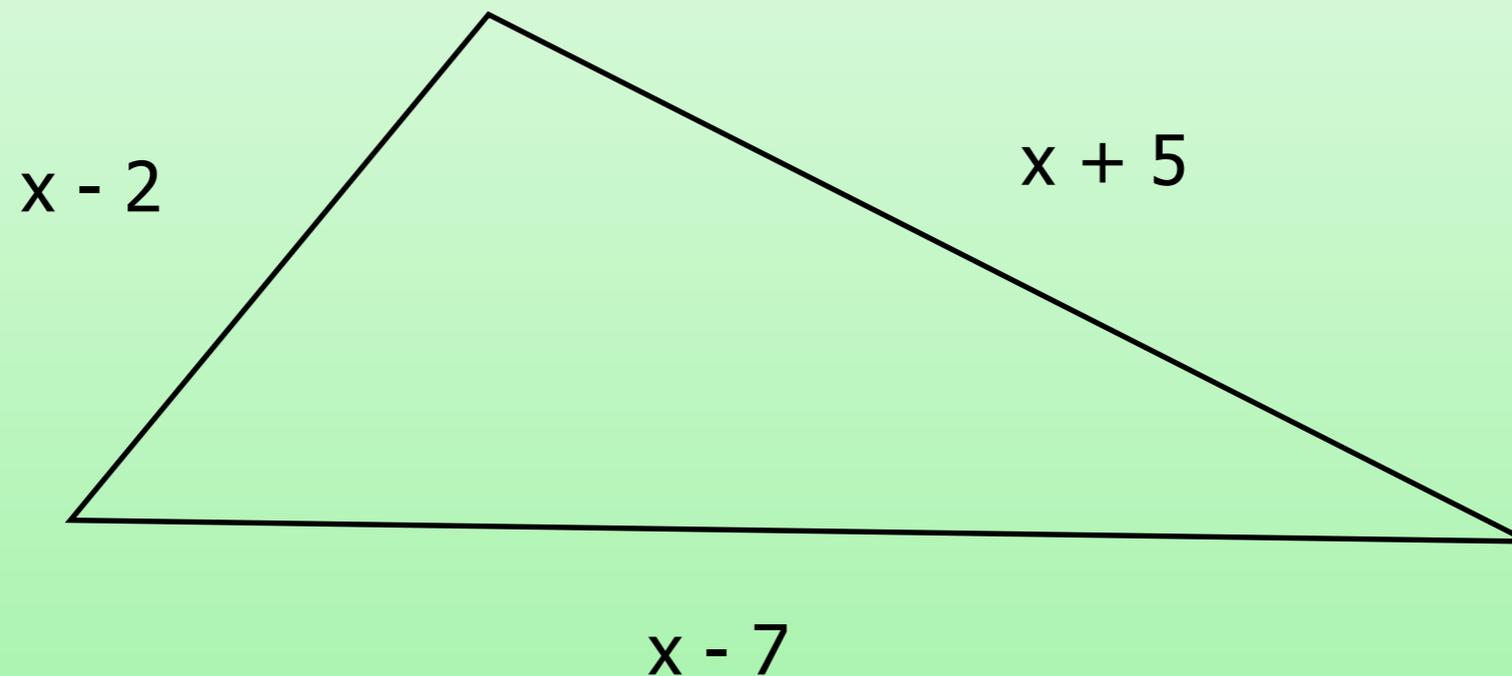


- b) Graph: $5x - 7 \leq -6$

Day 22

1. Opener

- a) Solve for x if the perimeter of the triangle is 32.



- b) Graph: $5x - 7 \leq -6$
- c) What three-word phrase appeared on the front of the first official US coin, minted in 1787?

6. Homework

Practice

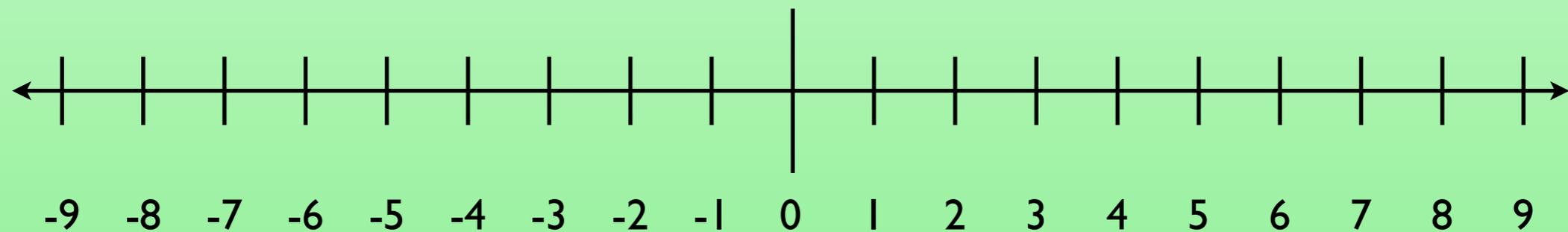
$$7 < x < 10$$

Challenge

$$7 > x > 10$$

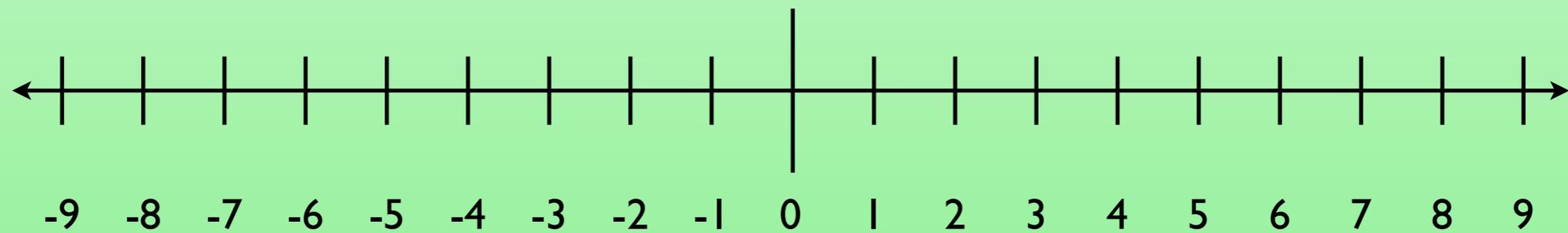
2. Compound Inequalities

$$x > -3$$



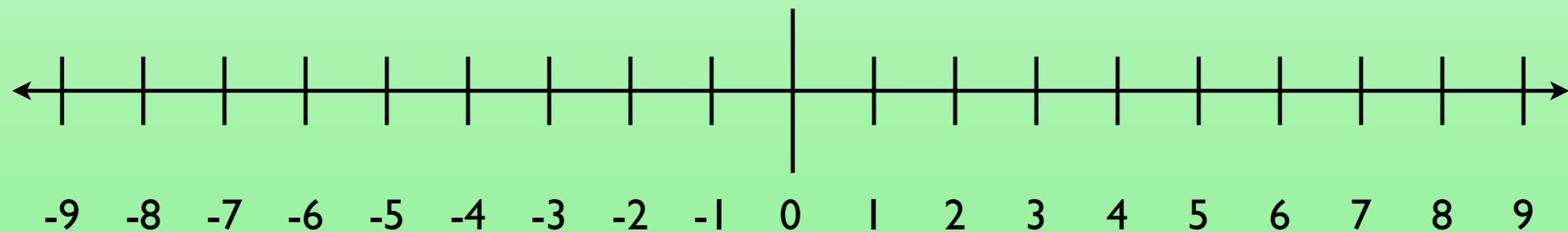
2. Compound Inequalities

$$x \leq 6$$



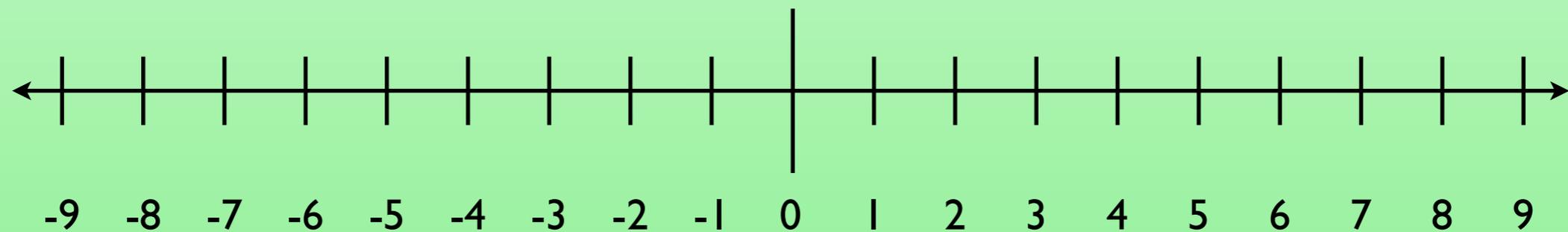
2. Compound Inequalities

$$x > -3 \text{ and } x \leq 6$$

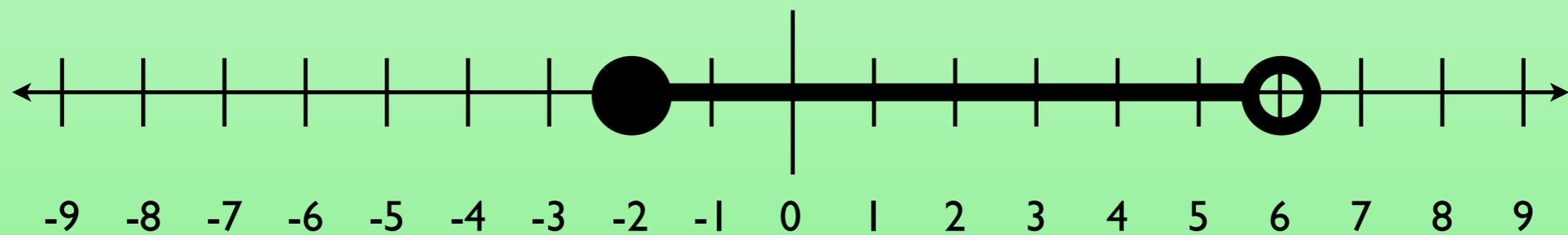


2. Compound Inequalities

$$-3 < x \leq 6$$

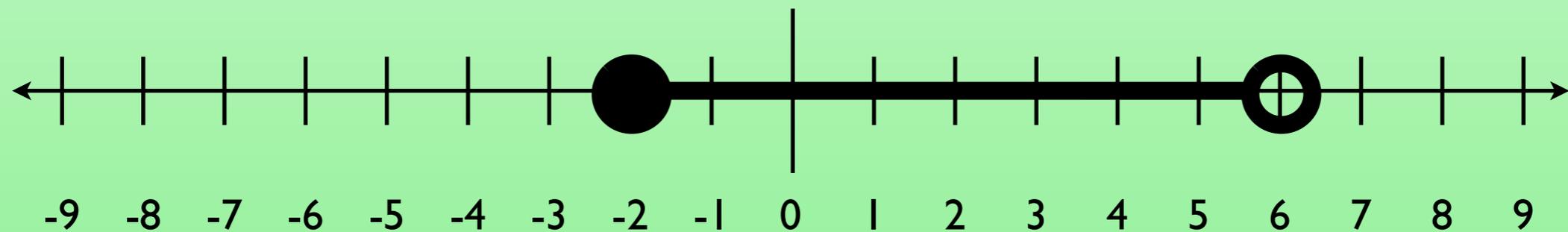


2. Compound Inequalities

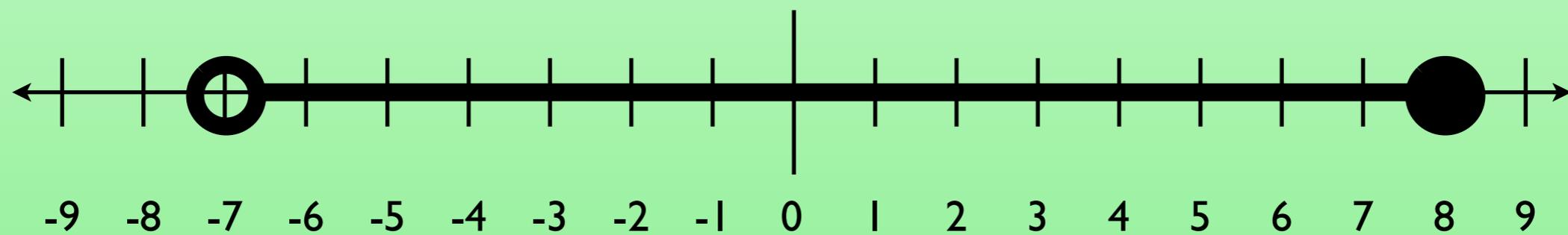


2. Compound Inequalities

$$-2 \leq x < 6$$

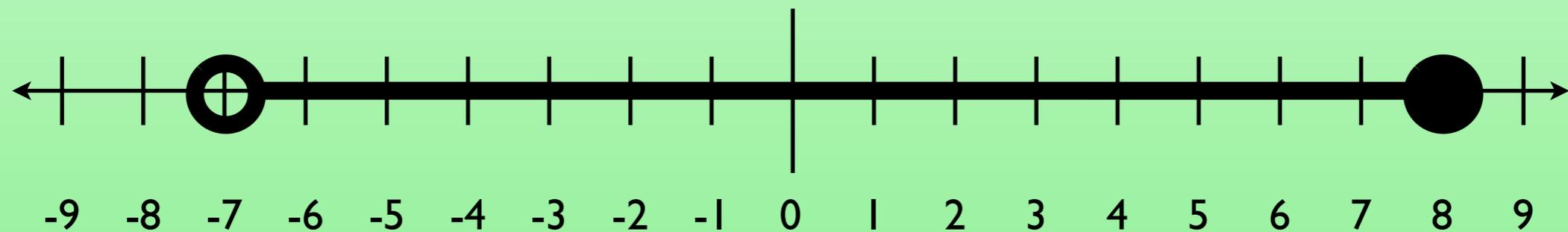


2. Compound Inequalities



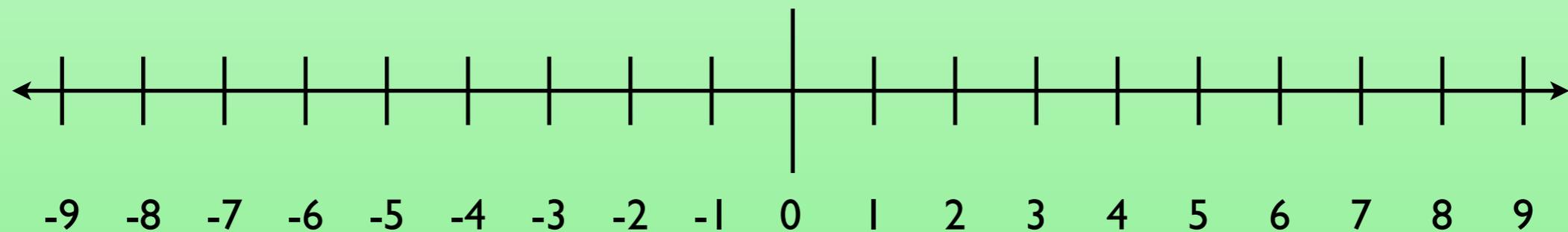
2. Compound Inequalities

$$-7 < x \leq 8$$



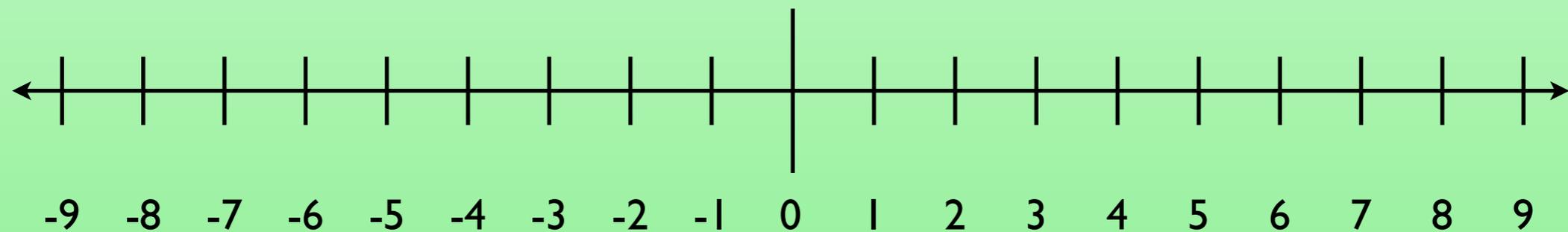
2. Compound Inequalities

$$-7 > x \geq 8$$



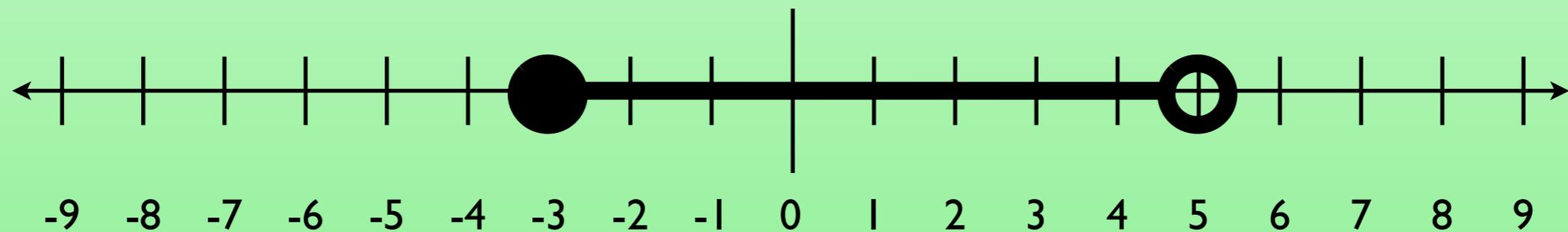
2. Compound Inequalities

$$-2 \leq x + 1 < 6$$



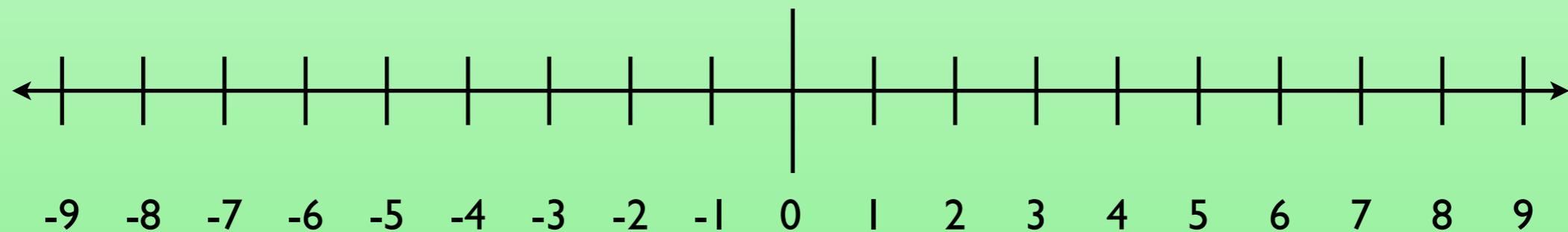
2. Compound Inequalities

$$-2 \leq x + 1 < 6$$



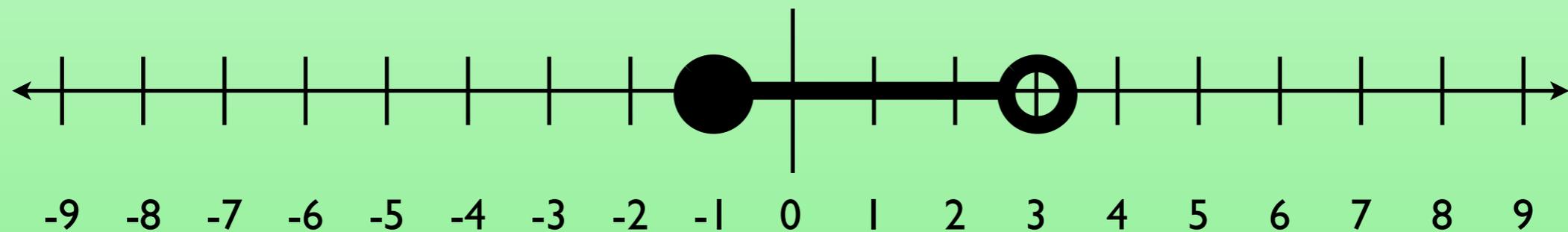
2. Compound Inequalities

$$-2 \leq 2x < 6$$



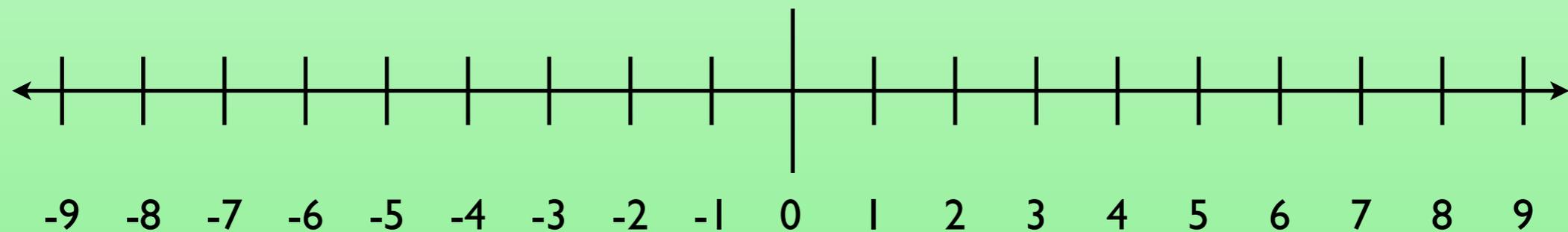
2. Compound Inequalities

$$-2 \leq 2x < 6$$



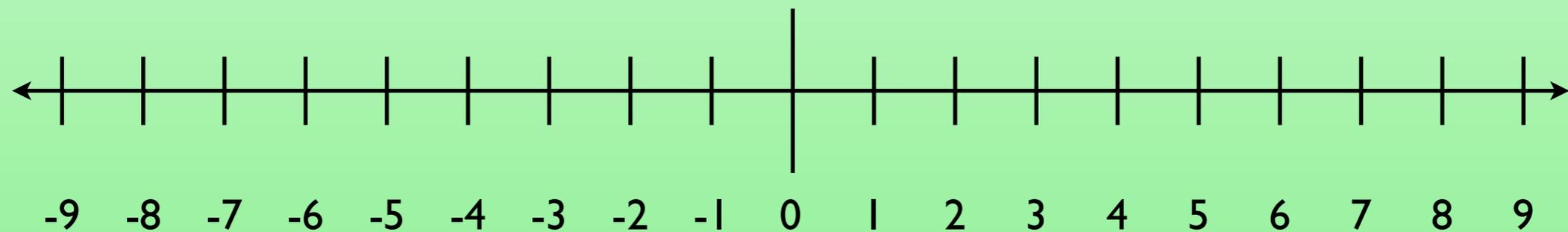
2. Compound Inequalities

$$-2 \geq x > 6$$



2. Compound Inequalities

$$x \geq -1 \quad \text{or} \quad x < 6$$



3. Classwork

3. Classwork

pg. 153 // #1 - 4

3. Classwork

pg. 153 // #1 - 4

pg. 154 // #17 - 20

3. Classwork

pg. 153 // #1 - 4

pg. 154 // #17 - 20

pg. 154 // #29 - 32

3. Classwork

pg. 153 // #1 - 4

pg. 154 // #17 - 20

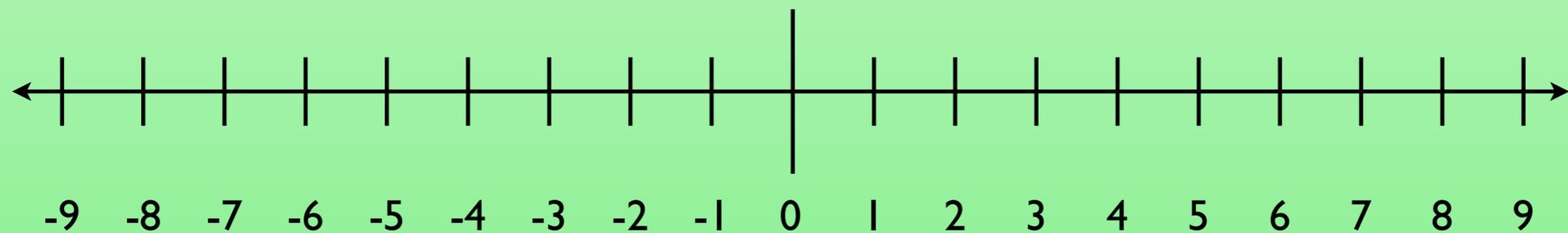
pg. 154 // #29 - 32

pg. 154 // #5 - 13

Day 23

1. Opener

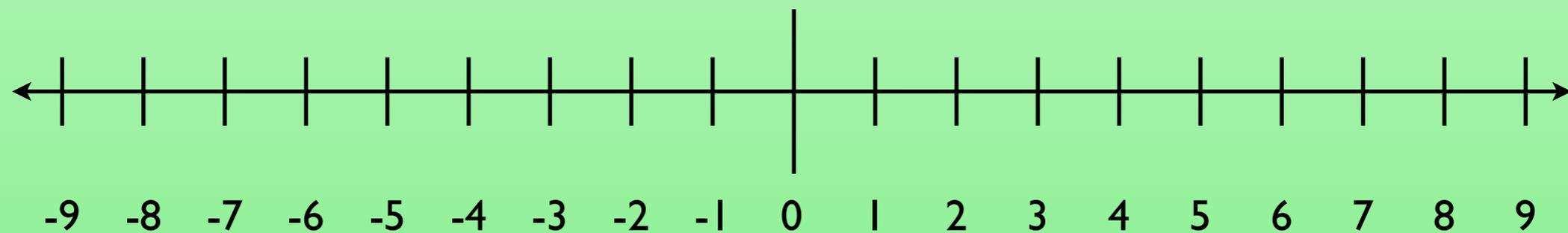
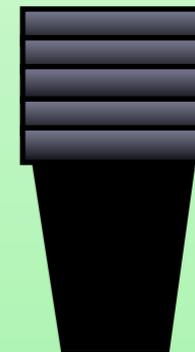
- a) Graph: $x < 6$ and $x \geq -2$
- b) Graph: $x < 6$ or $x \geq -2$
- c) Graph: $x^2 > 9$
- d) Distribute: $-2(4 - x)$
- e) A stack of 5 cups is 7 cm tall. How tall would a stack of 15 cups be?
- f) How much does the most expensive coffee in the world cost per pound?



Day 23

1. Opener

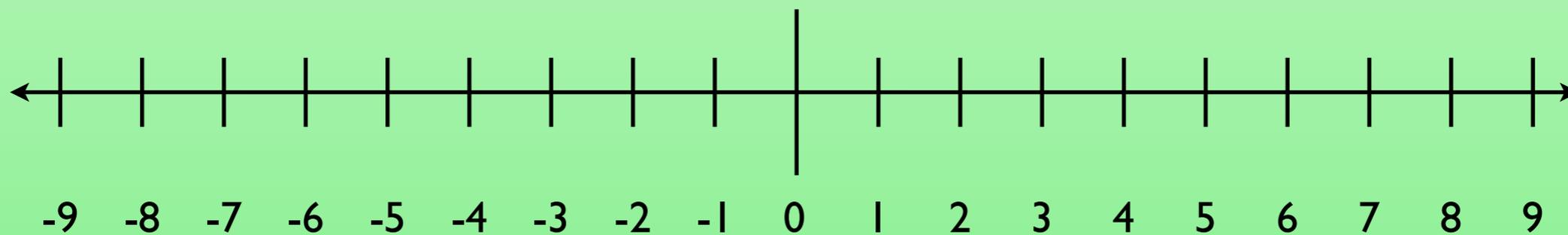
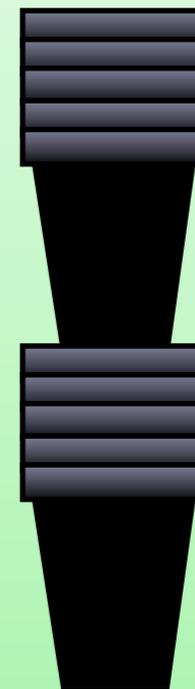
- a) Graph: $x < 6$ and $x \geq -2$
- b) Graph: $x < 6$ or $x \geq -2$
- c) Graph: $x^2 > 9$
- d) Distribute: $-2(4 - x)$
- e) A stack of 5 cups is 7 cm tall. How tall would a stack of 15 cups be?
- f) How much does the most expensive coffee in the world cost per pound?



Day 23

1. Opener

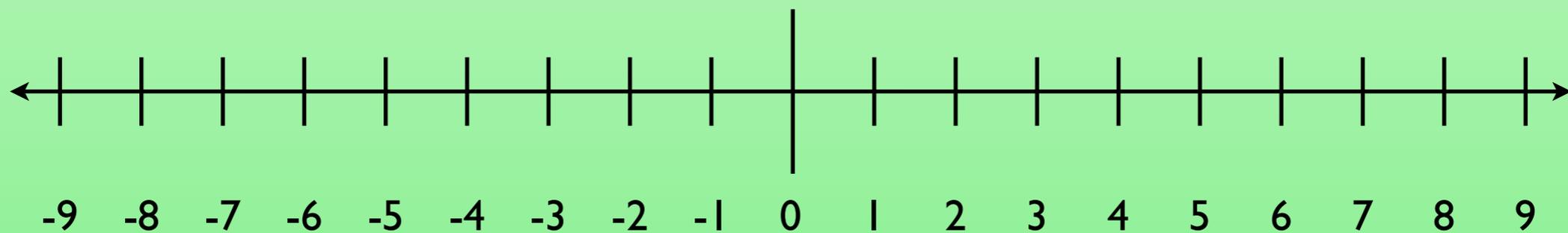
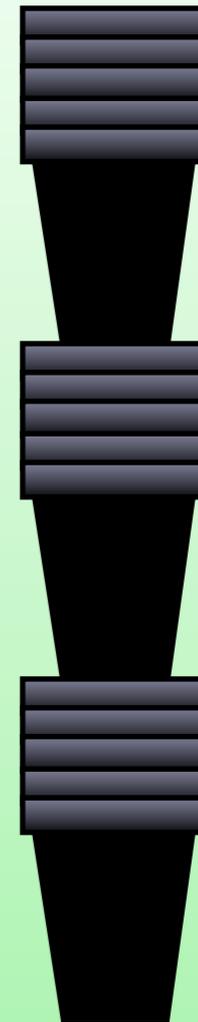
- a) Graph: $x < 6$ and $x \geq -2$
- b) Graph: $x < 6$ or $x \geq -2$
- c) Graph: $x^2 > 9$
- d) Distribute: $-2(4 - x)$
- e) A stack of 5 cups is 7 cm tall. How tall would a stack of 15 cups be?
- f) How much does the most expensive coffee in the world cost per pound?



Day 23

1. Opener

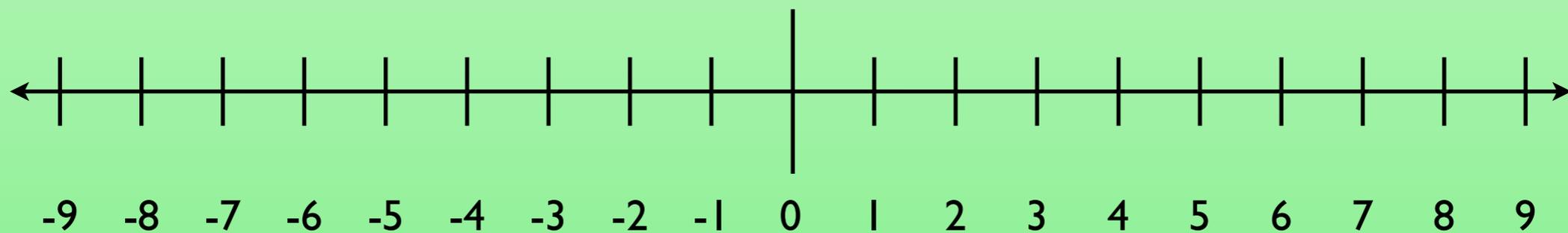
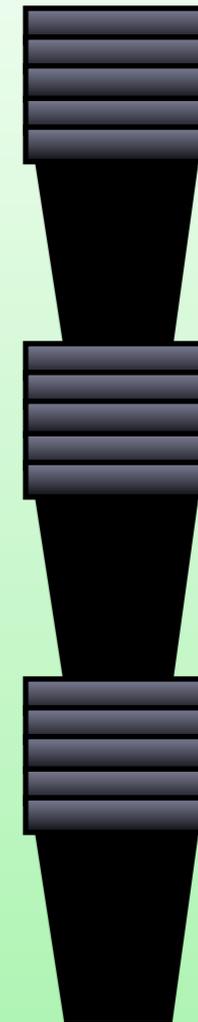
- a) Graph: $x < 6$ and $x \geq -2$
- b) Graph: $x < 6$ or $x \geq -2$
- c) Graph: $x^2 > 9$
- d) Distribute: $-2(4 - x)$
- e) A stack of 5 cups is 7 cm tall. How tall would a stack of 15 cups be?
- f) How much does the most expensive coffee in the world cost per pound?

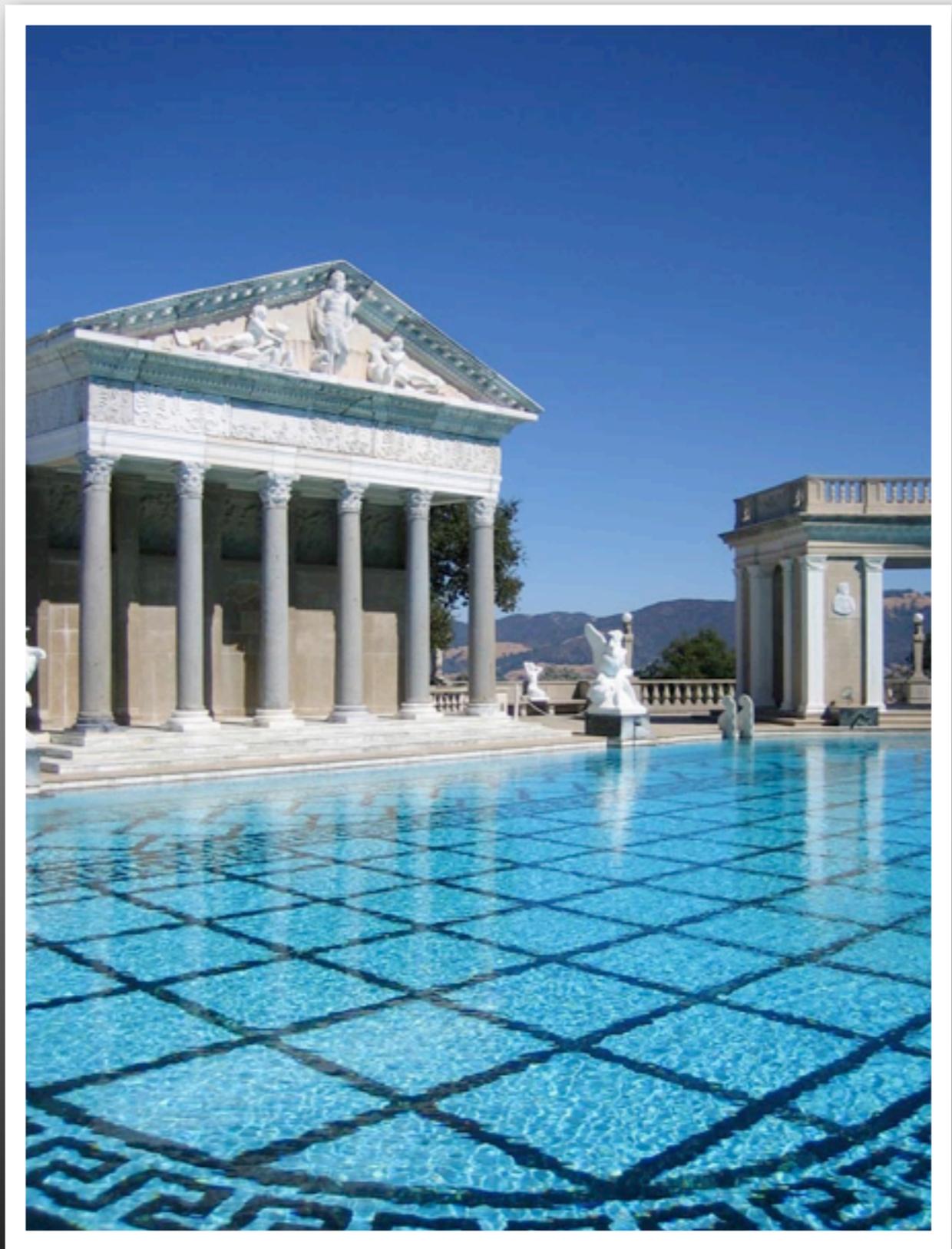


Day 23

1. Opener

- a) Graph: $x < 6$ and $x \geq -2$
- b) Graph: $x < 6$ or $x \geq -2$
- c) Graph: $x^2 > 9$
- d) Distribute: $-2(4 - x)$
- e) A stack of 5 lips is 7 cm tall. How tall would a stack of 15 lips be?
- f) How much does the most expensive coffee in the world cost per pound?

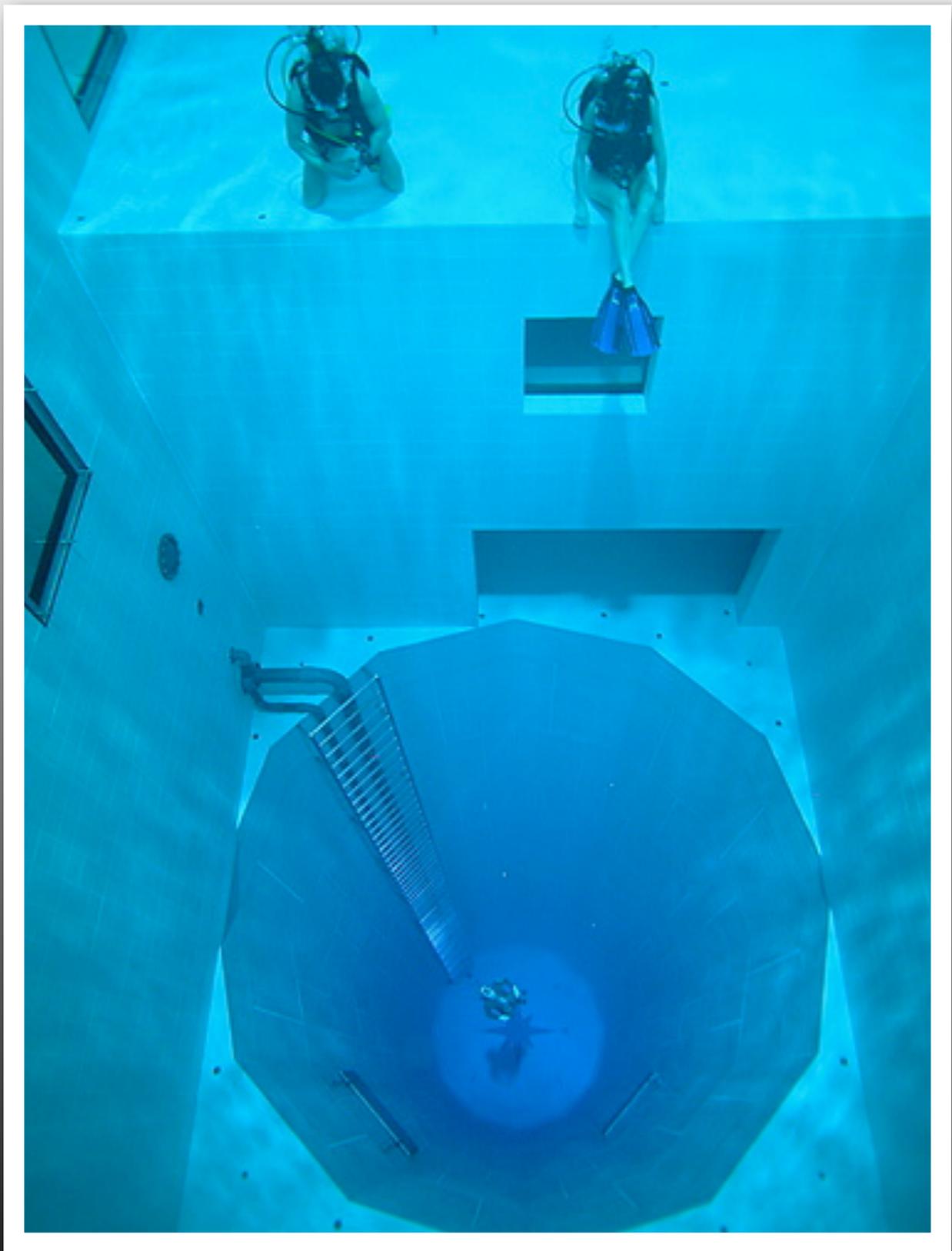










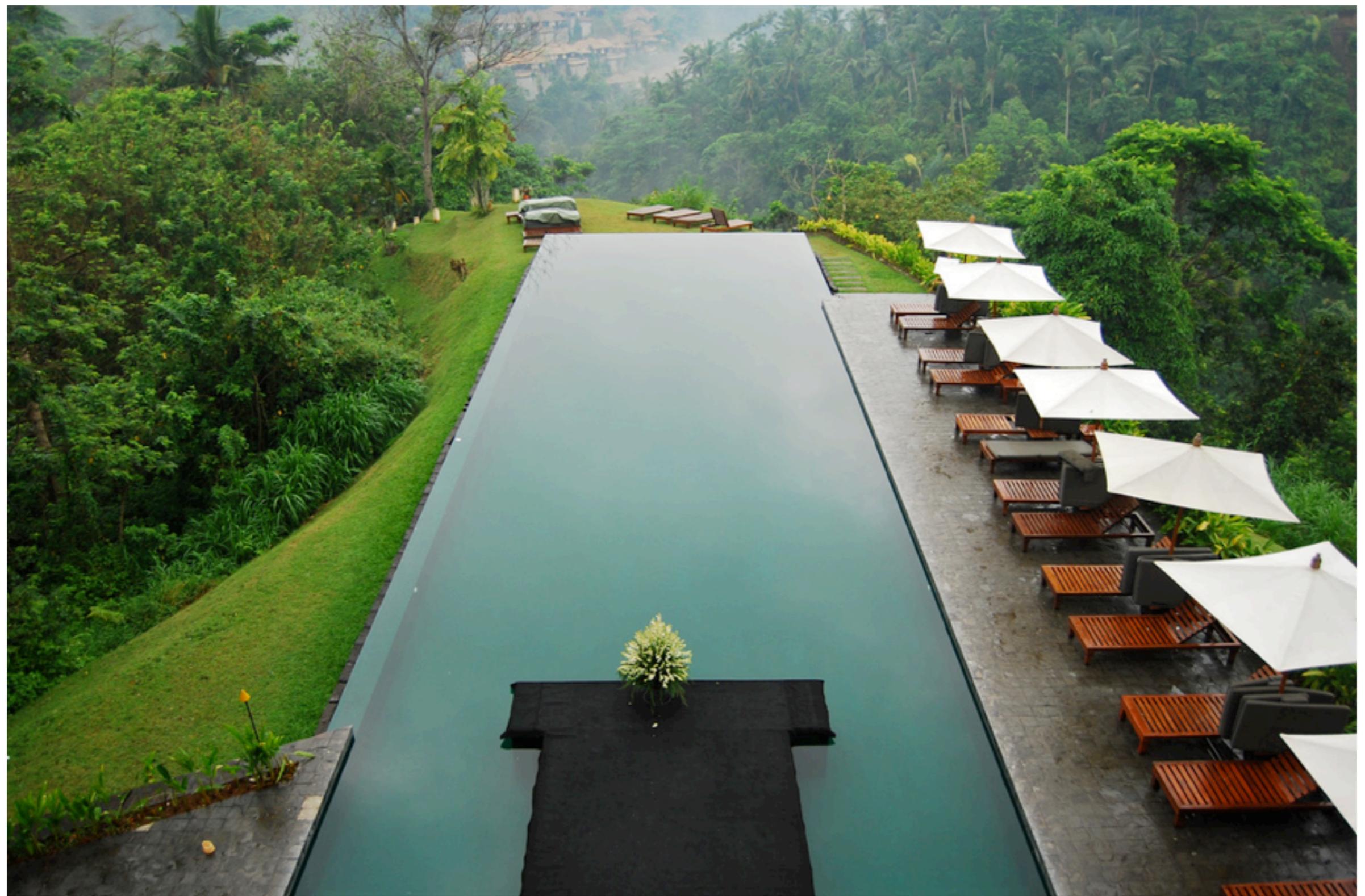




© Peter Aaron/Esto







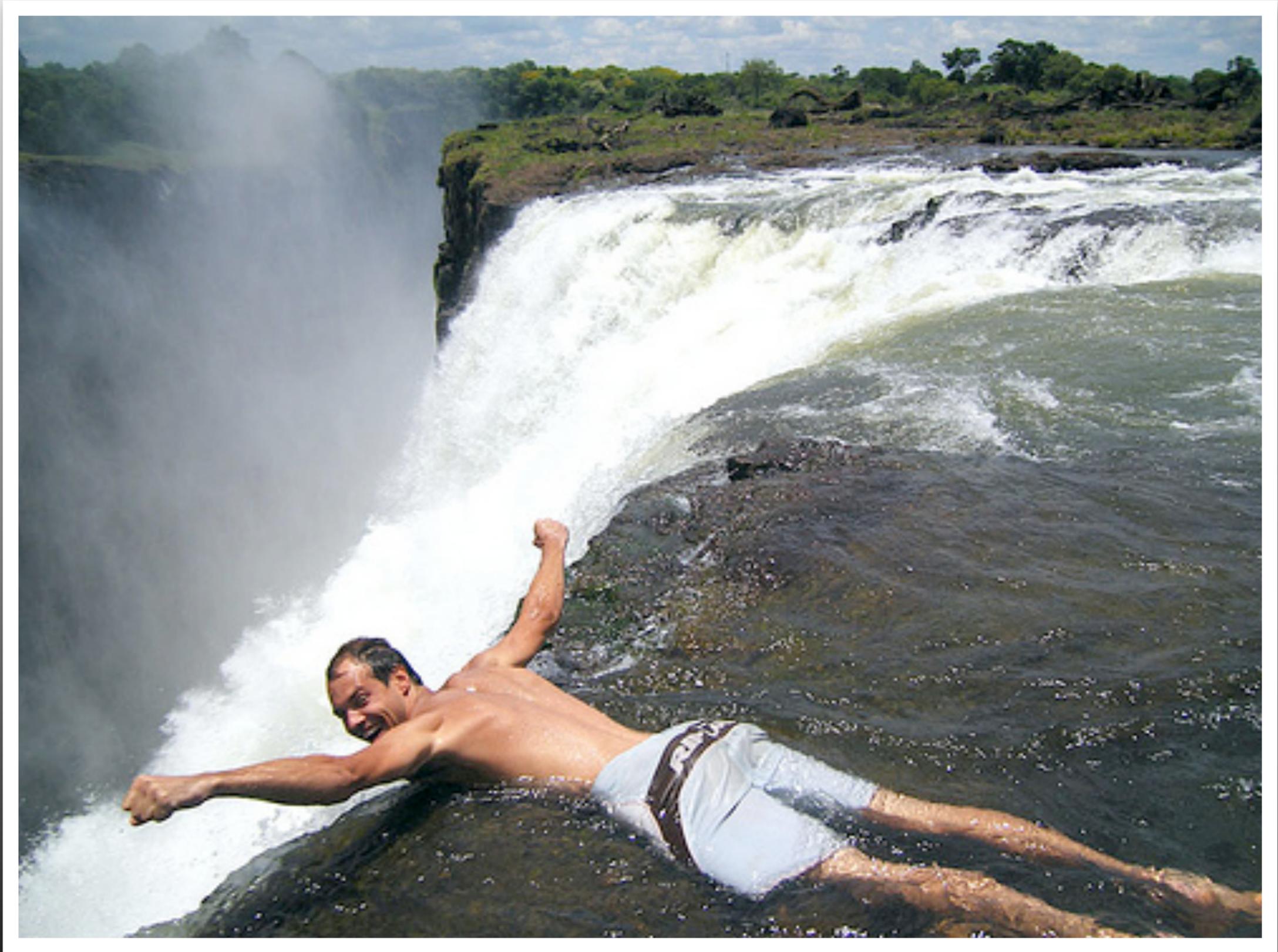








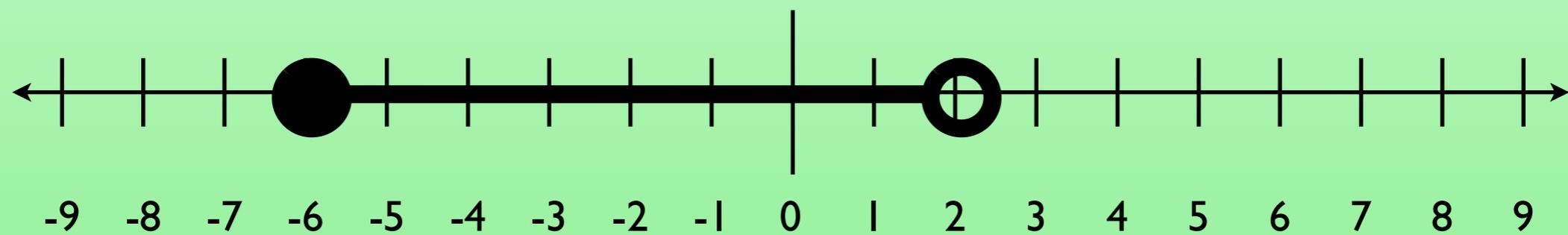








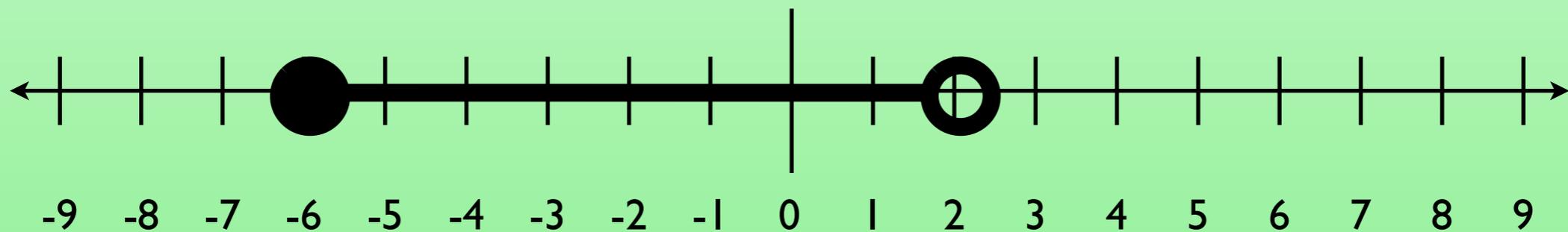
2. Whiteboards



2. Whiteboards

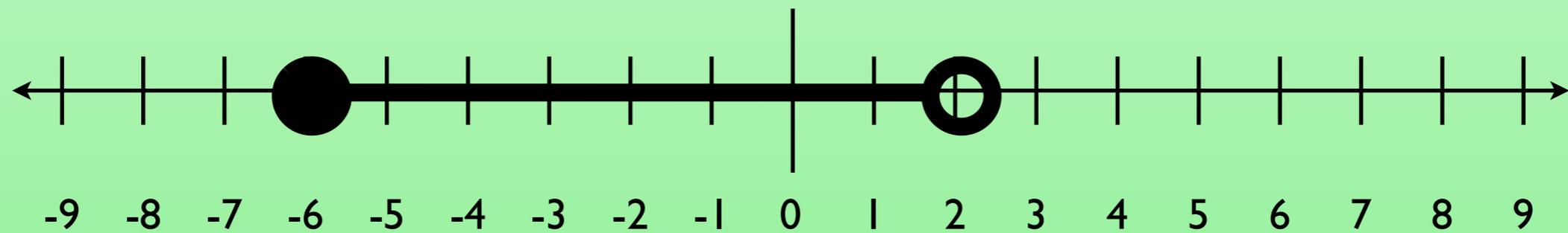
$$-6 \leq x < 2$$

$$-6 \geq x > 2$$

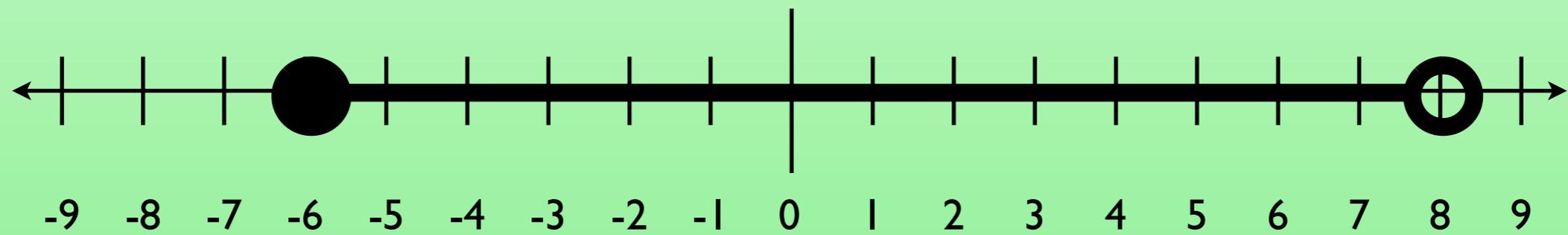


2. Whiteboards

$$-6 \leq x < 2$$

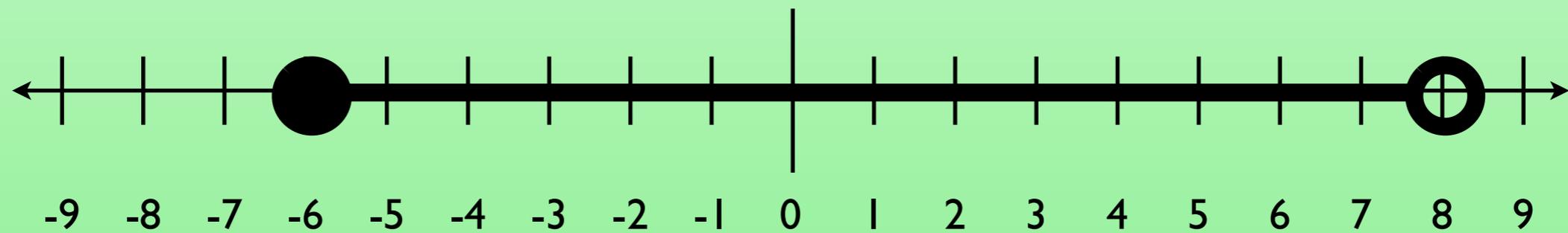


2. Whiteboards



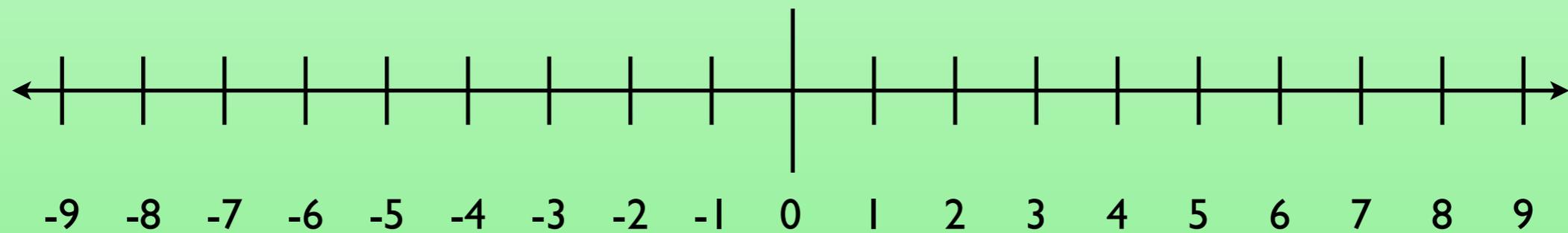
2. Whiteboards

$$-6 \leq x < 8$$



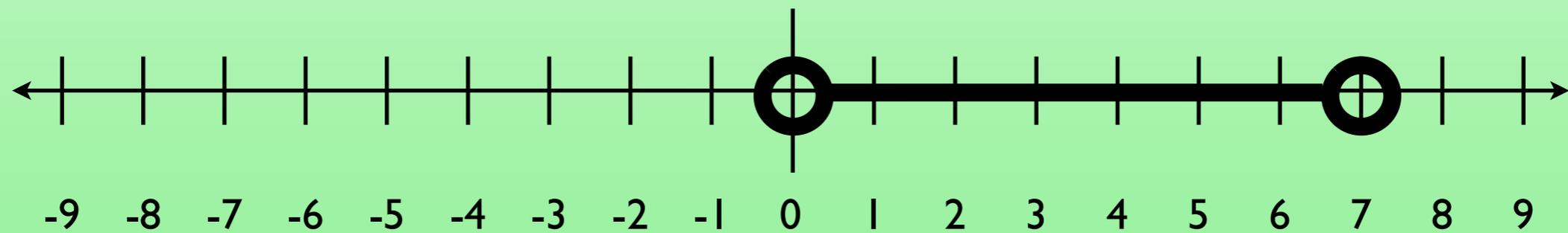
2. Whiteboards

$$0 < x < 7$$



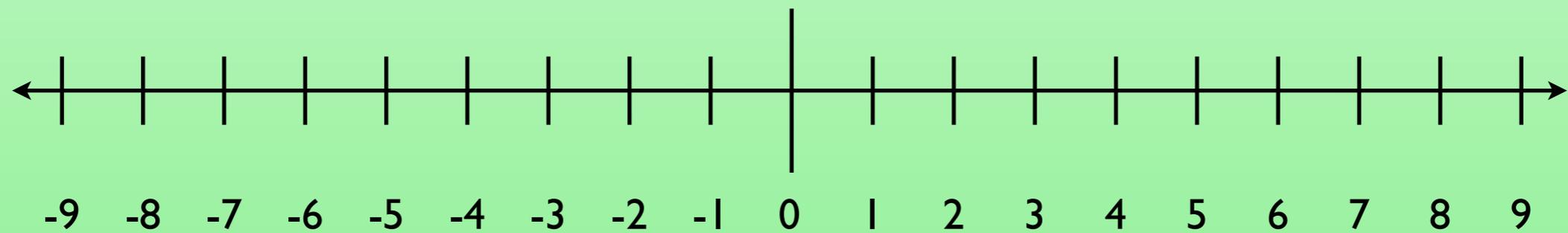
2. Whiteboards

$$0 < x < 7$$



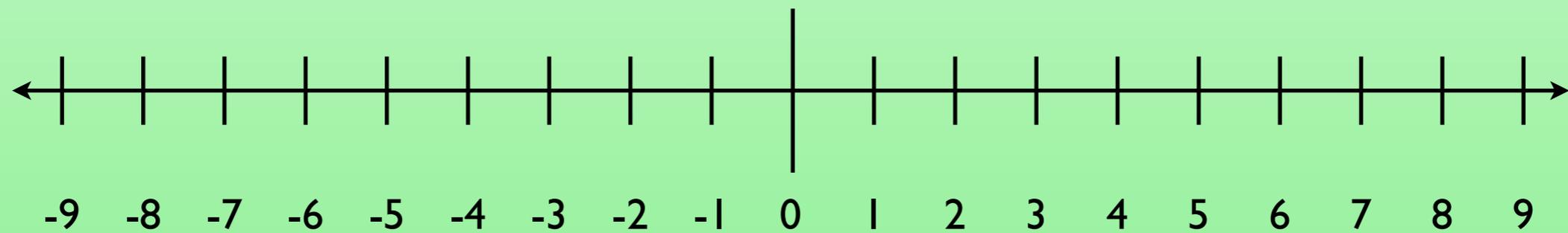
2. Whiteboards

$$0 > x > 7$$



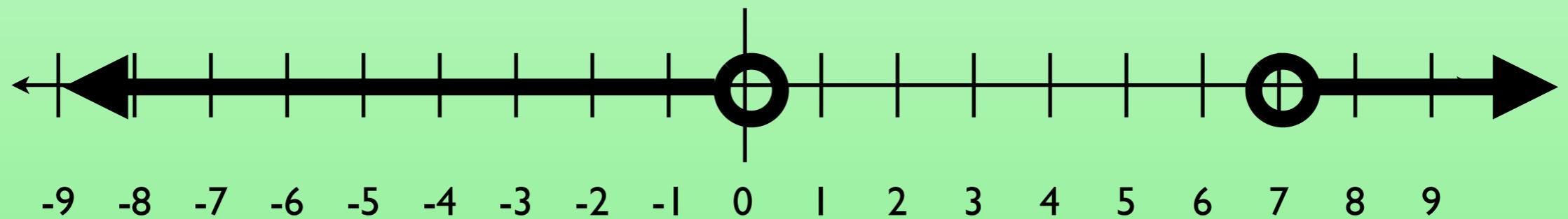
2. Whiteboards

$$0 > x \text{ or } x > 7$$



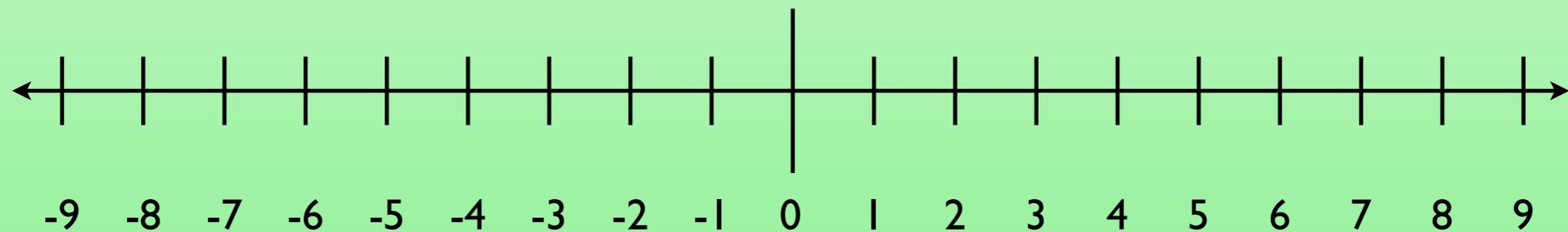
2. Whiteboards

$$0 > x \text{ or } x > 7$$



2. Whiteboards

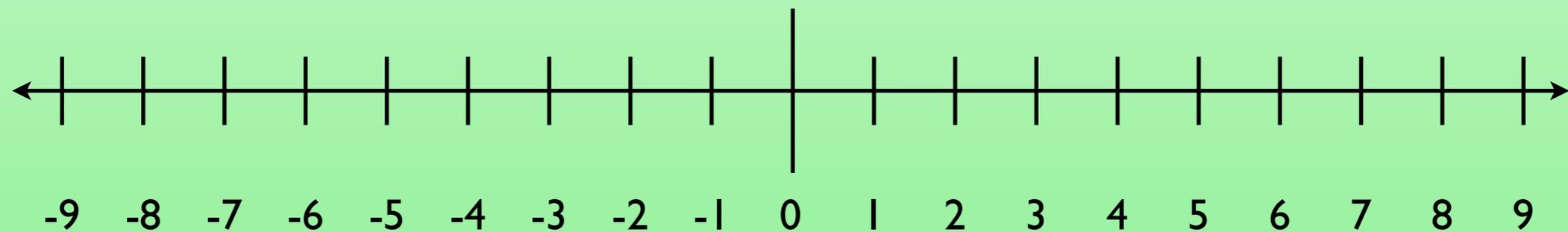
$$5 < x + 1 \leq 7$$



2. Whiteboards

$$5 < x + 1$$

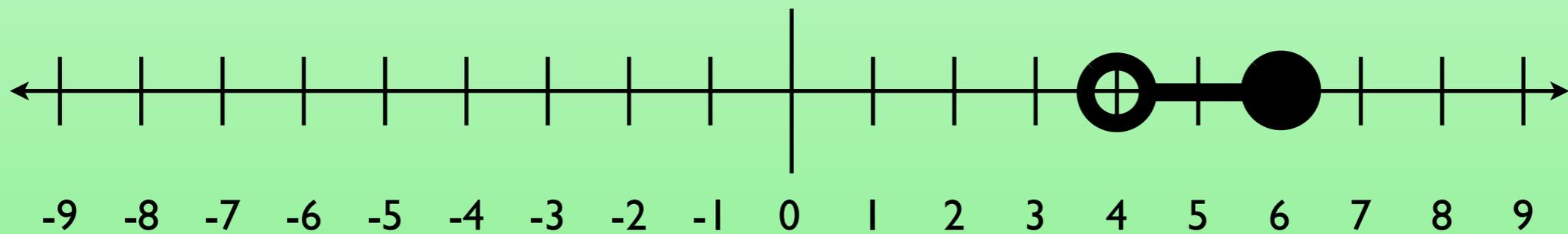
$$x + 1 \leq 7$$



2. Whiteboards

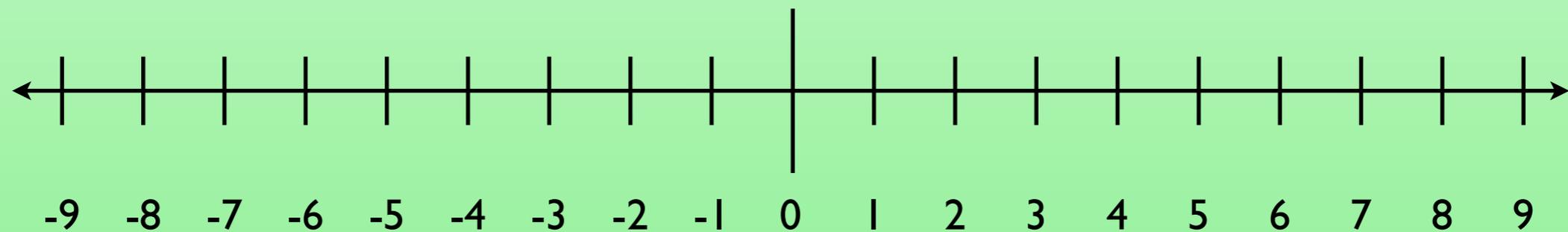
$$5 < x + 1$$

$$x + 1 \leq 7$$



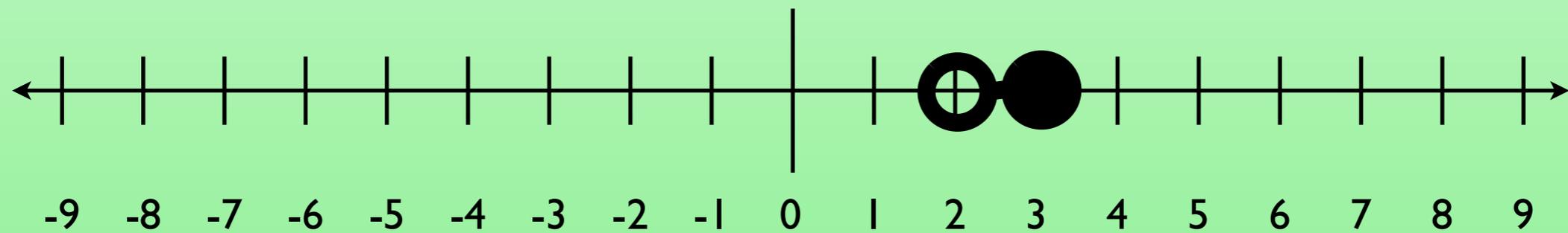
2. Whiteboards

$$5 < 2x + 1 \leq 7$$



2. Whiteboards

$$5 < 2x + 1 \leq 7$$



2. Whiteboards

2. Whiteboards

2. Whiteboards

French

2. Whiteboards

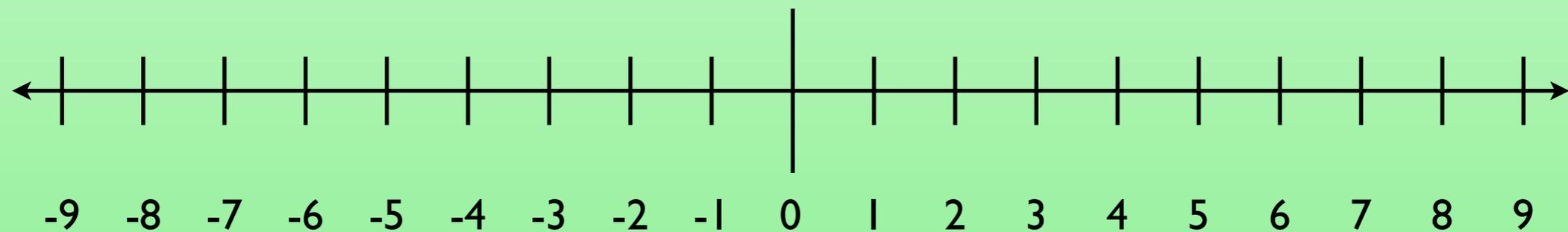
2. Whiteboards

2. Whiteboards

Jamaican

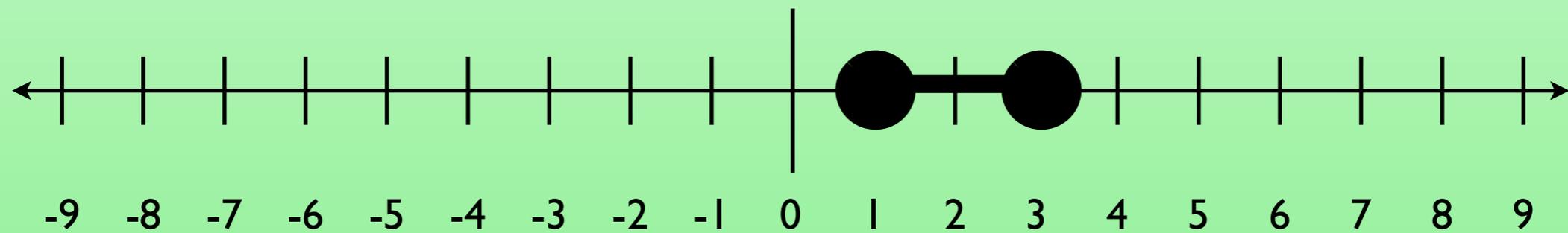
2. Whiteboards

$$-4 \leq 3x - 7 \leq 2$$



2. Whiteboards

$$-4 \leq 3x - 7 \leq 2$$



2. Whiteboards

2. Whiteboards

2. Whiteboards

Russian

2. Whiteboards

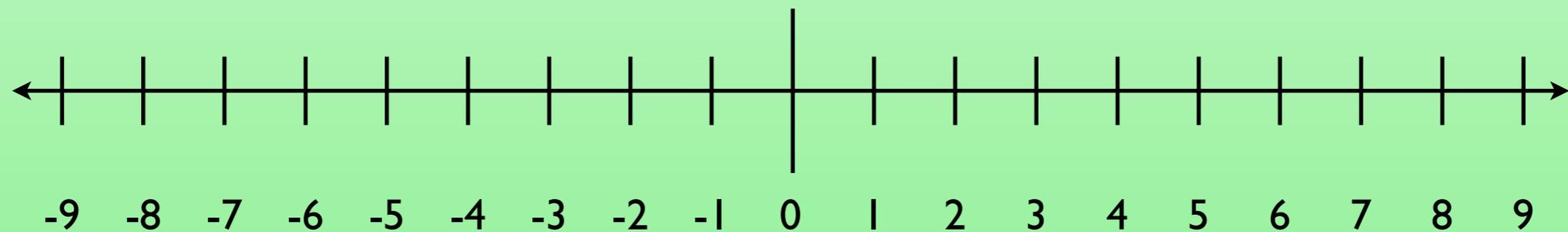
2. Whiteboards

2. Whiteboards

German

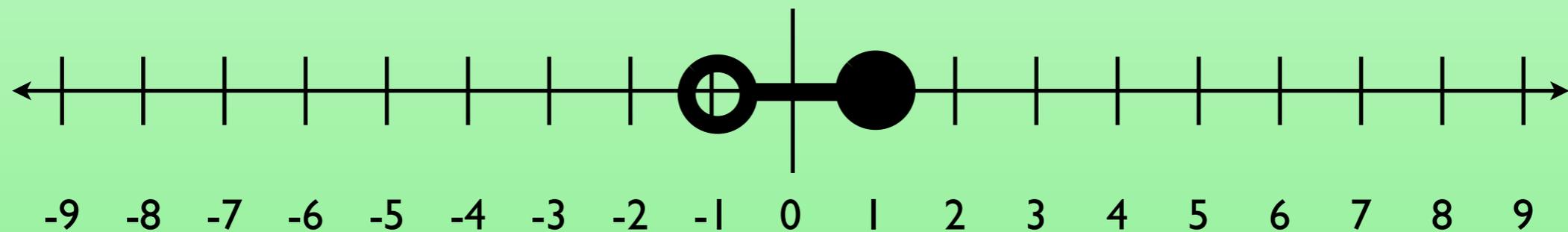
2. Whiteboards

$$2 \leq -5x + 7 < 12$$



2. Whiteboards

$$2 \leq -5x + 7 < 12$$



2. Whiteboards

2. Whiteboards

2. Whiteboards

Chinese

2. Whiteboards

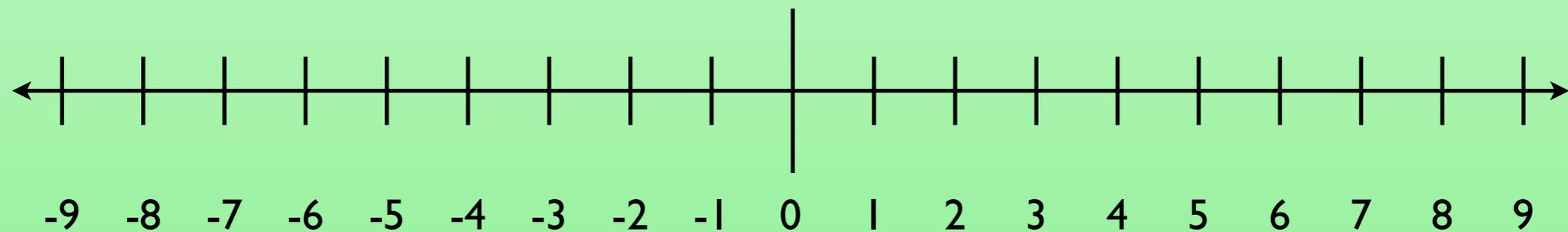
2. Whiteboards

2. Whiteboards

Spanish

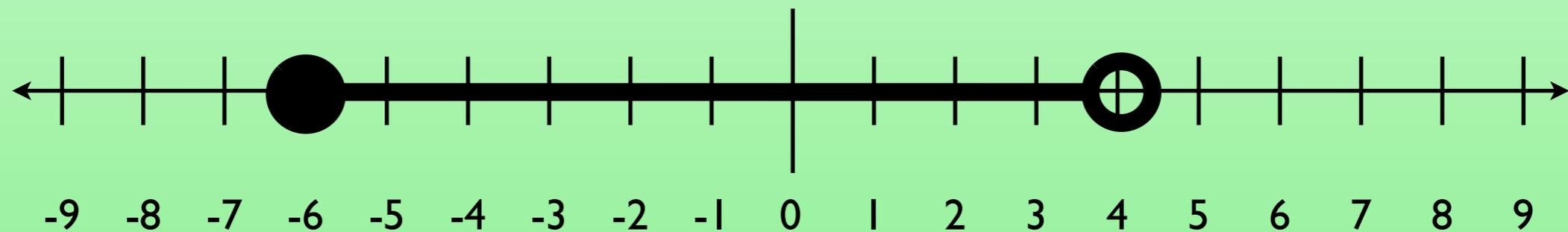
2. Whiteboards

$$-5 < -2x + 3 \leq 15$$



2. Whiteboards

$$-5 < -2x + 3 \leq 15$$



2. Whiteboards

2. Whiteboards

2. Whiteboards

Italian

2. Whiteboards

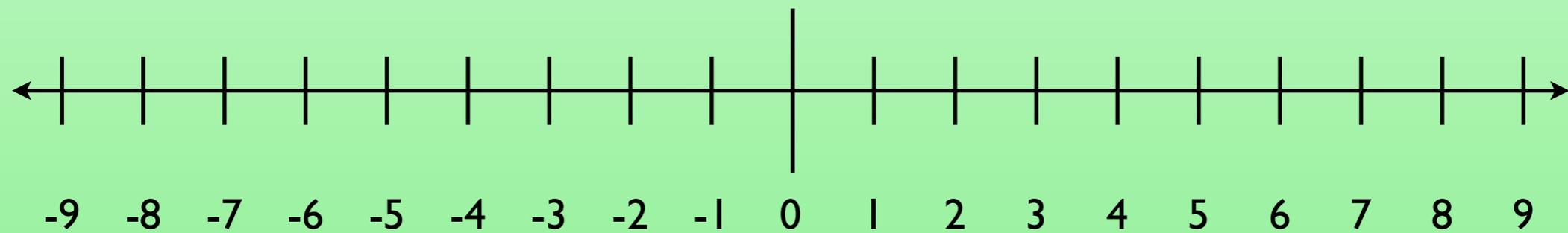
2. Whiteboards

2. Whiteboards

Norwegian

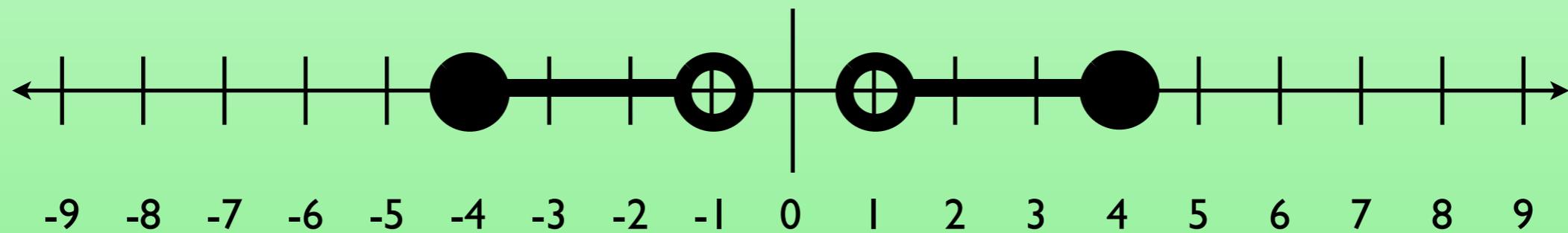
2. Whiteboards

$$1 < x^2 \leq 16$$



2. Whiteboards

$$1 < x^2 \leq 16$$

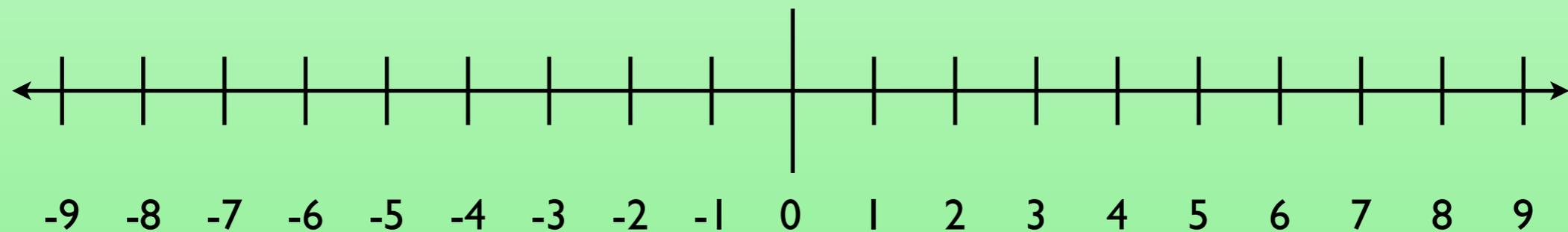


3. Break

4. Show and Tell

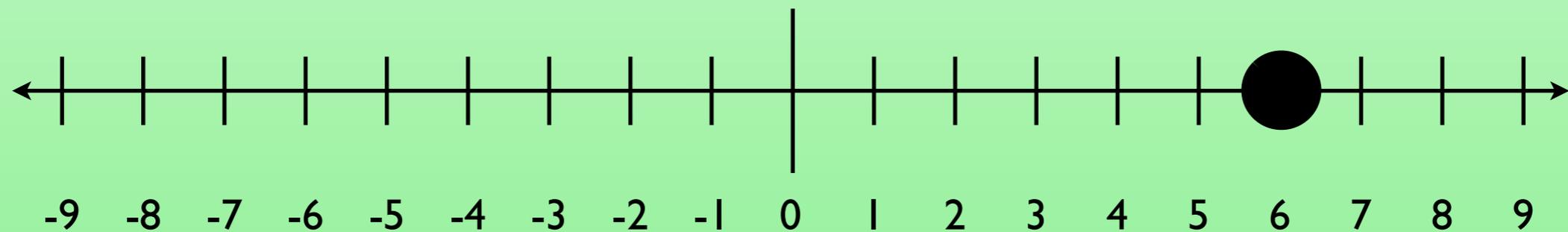
5. Absolute Value Inequalities

$$|x| = 6$$



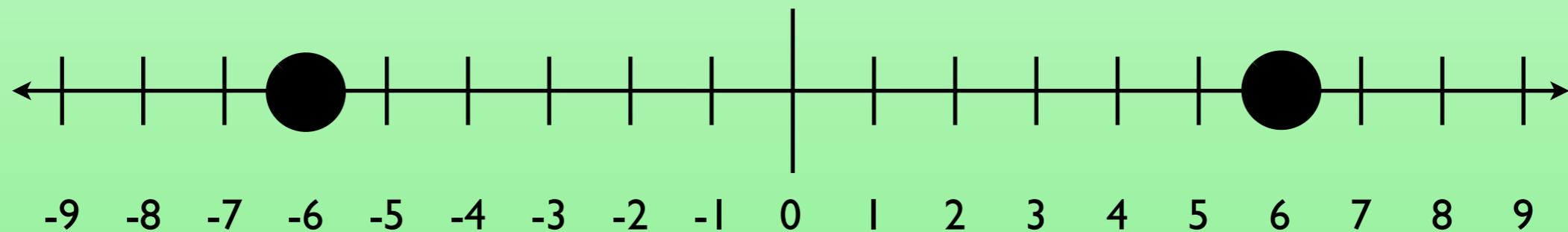
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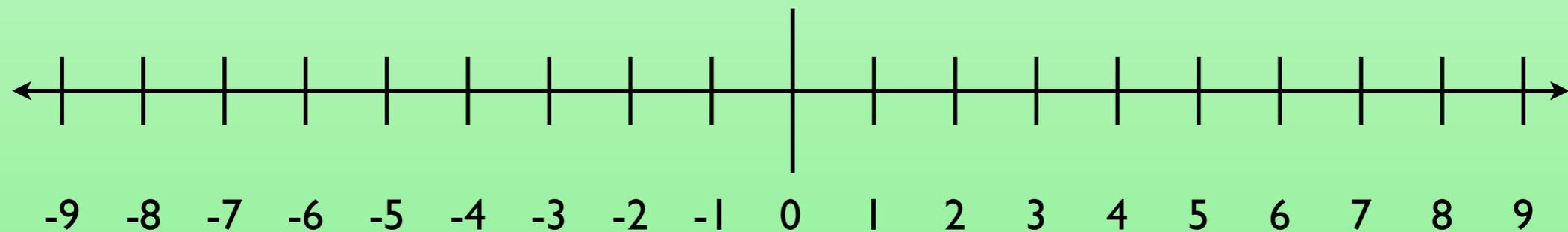
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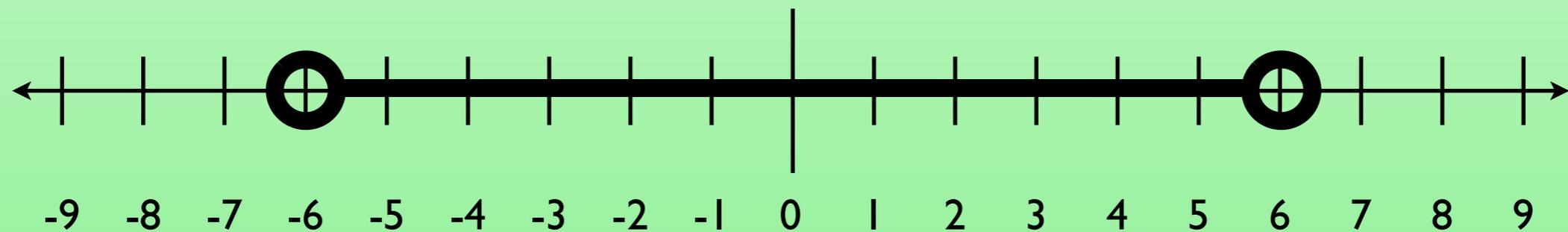
5. Absolute Value Inequalities

$$|x| < 6$$



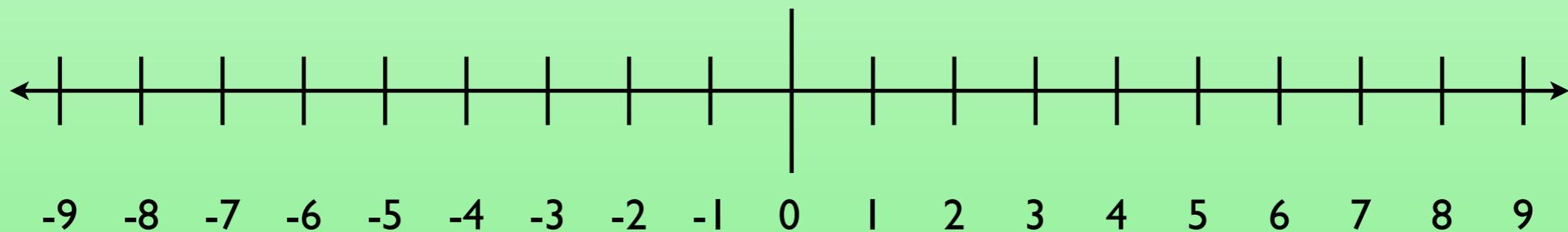
5. Absolute Value Inequalities

$$|x| < 6$$



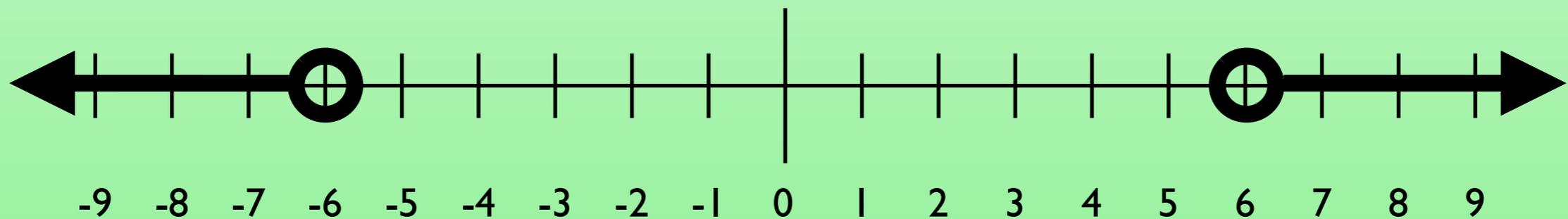
5. Absolute Value Inequalities

$$|x| > 6$$



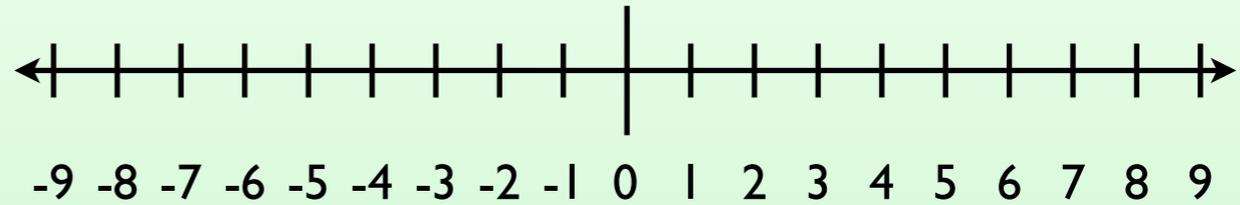
5. Absolute Value Inequalities

$$|x| > 6$$

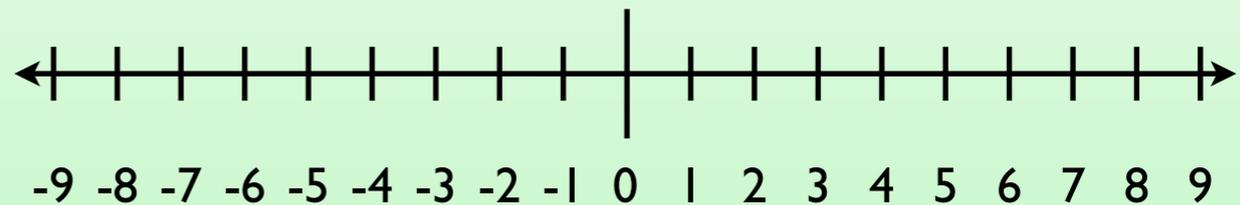


6. Classwork

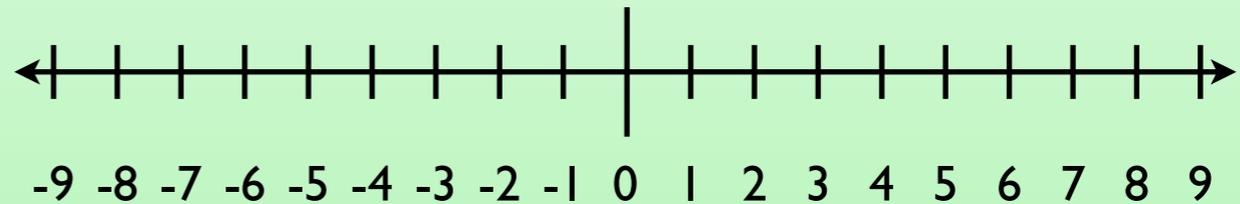
1. $|x| > 5$



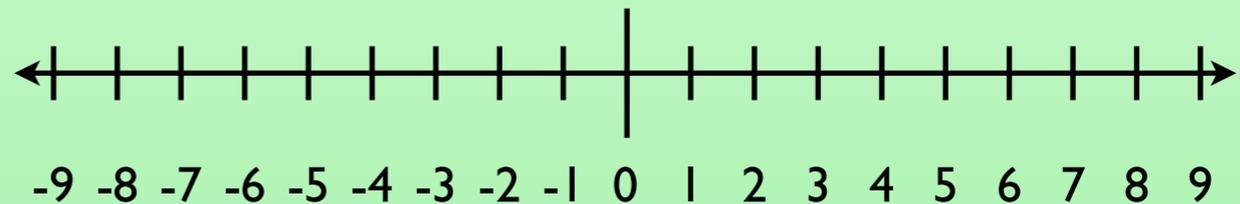
2. $|x| \leq 10$



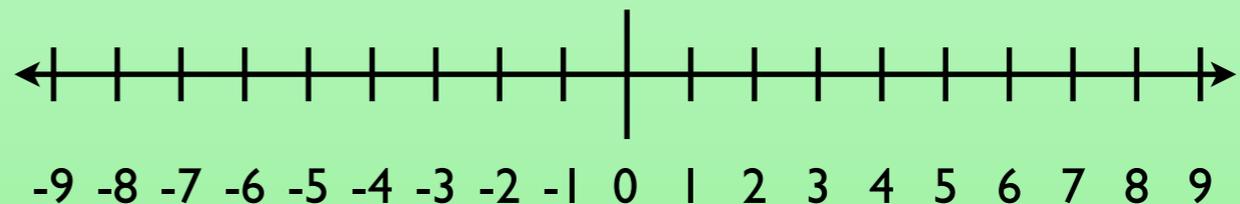
3. $|x| < 2$



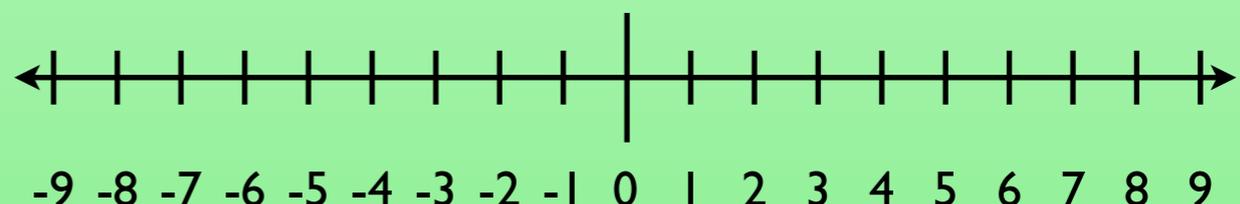
4. $|x| \geq -8$



5. $-|x| < 2$

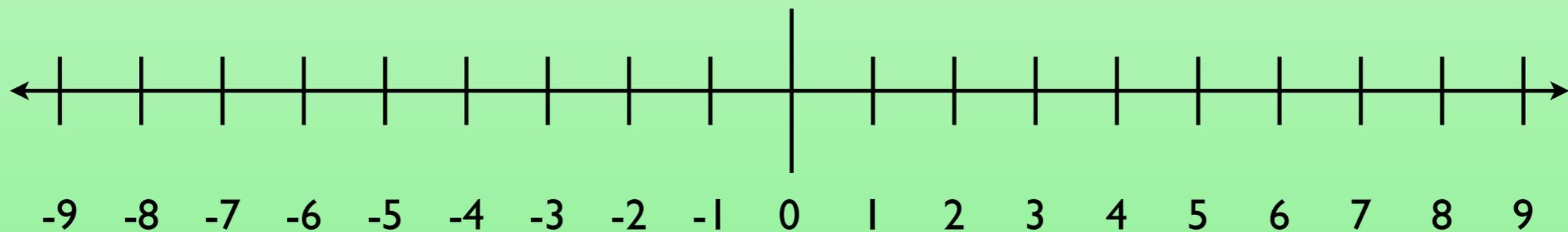


6. $-|x| \geq 5$



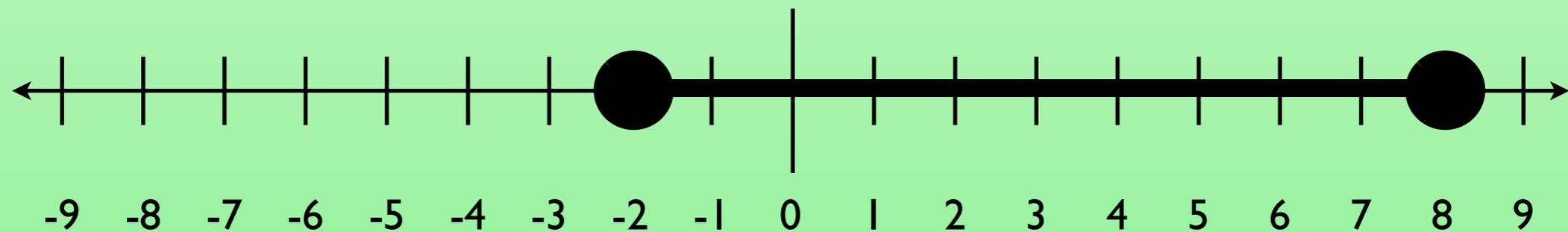
7. Absolute Value Inequalities

$$|x - 3| \leq 5$$



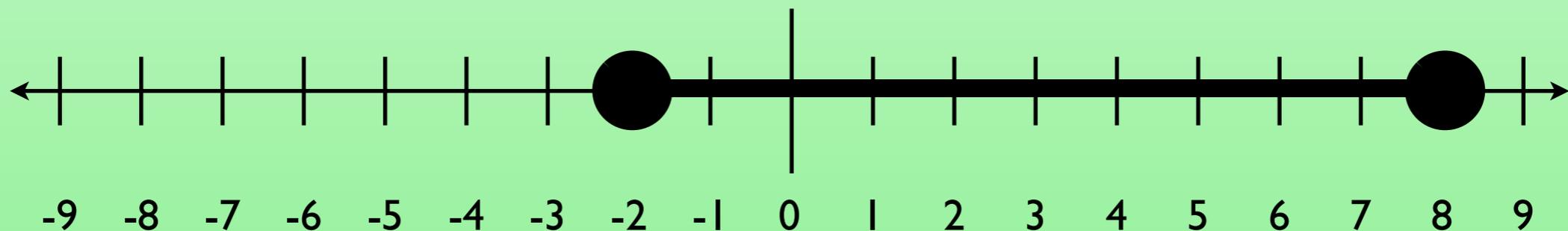
7. Absolute Value Inequalities

$$|x - 3| \leq 5$$



7. Absolute Value Inequalities

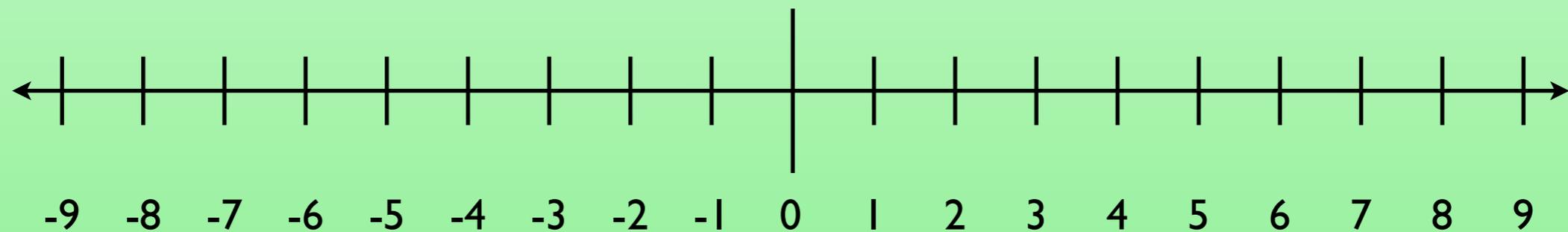
$$|x - 3| \leq 5$$



“This is just like $|x| \leq 5$ except _____.”

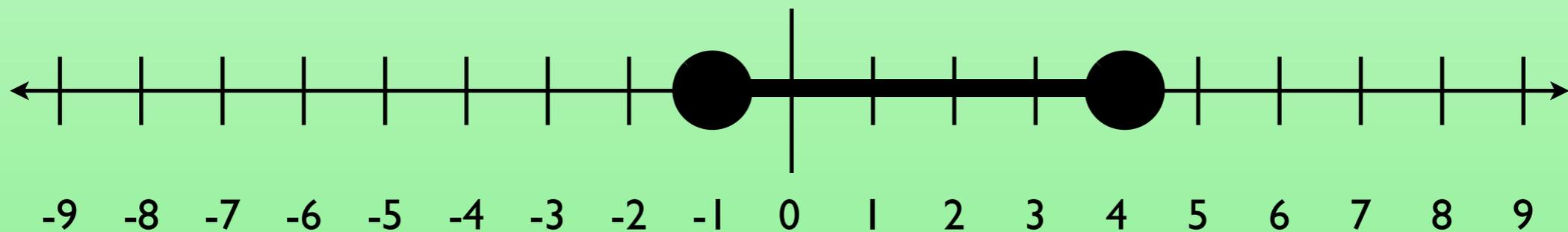
7. Absolute Value Inequalities

$$|2x - 3| \leq 5$$



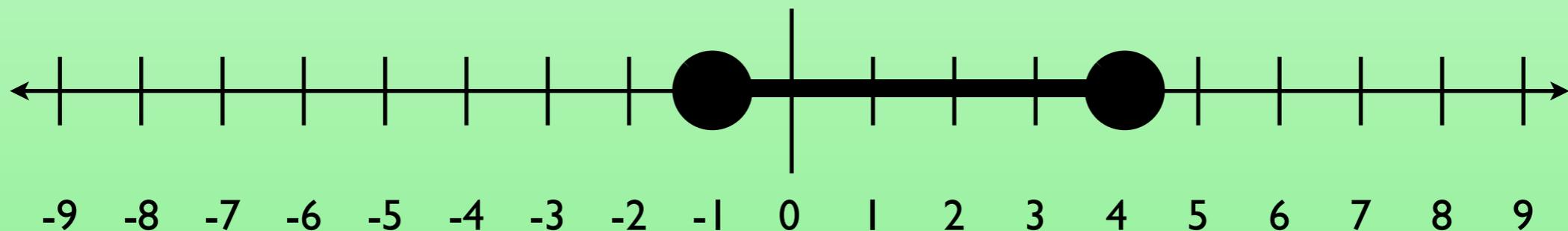
7. Absolute Value Inequalities

$$|2x - 3| \leq 5$$



7. Absolute Value Inequalities

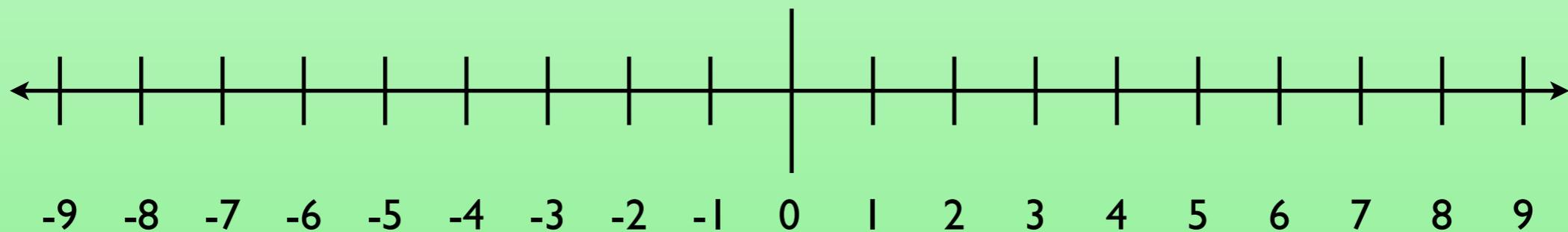
$$|2x - 3| \leq 5$$



“This is just like $|x| \leq 5$ except _____.”

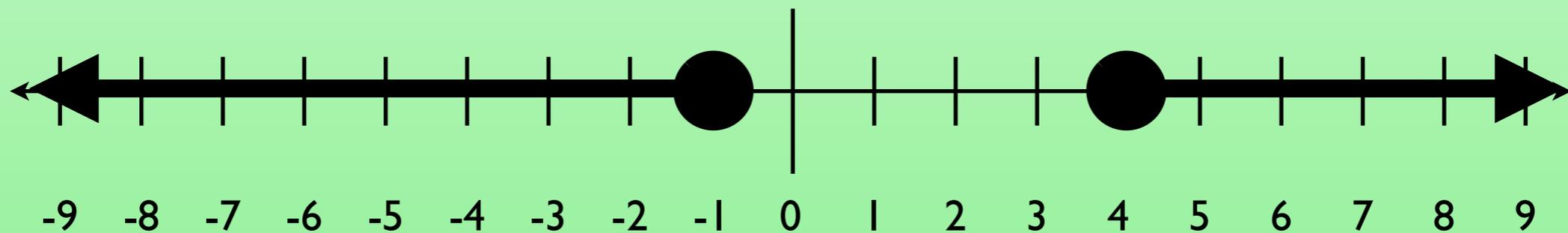
7. Absolute Value Inequalities

$$|2x - 3| \geq 5$$



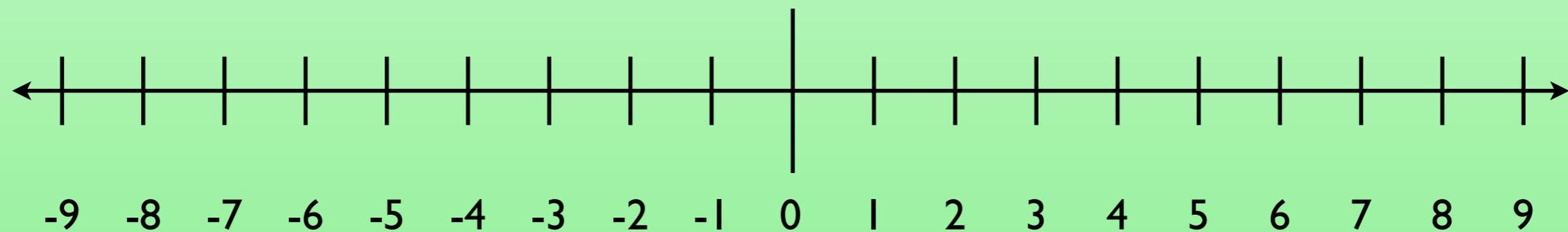
7. Absolute Value Inequalities

$$|2x - 3| \geq 5$$



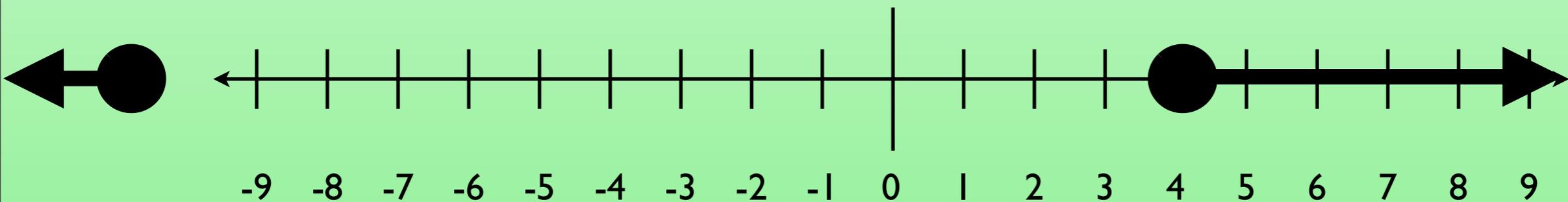
7. Absolute Value Inequalities

$$5 - |x + 4| \leq -3$$



7. Absolute Value Inequalities

$$5 - |x + 4| \leq -3$$



8. Classwork

1. $|x + 1| > 7$

2. $|x + 1| > 3$

3. $|2x - 6| > 10$

4. $|2x + 6| \leq 4$

5. $-|x - 1| \leq -3$

6. $-|2x + 1| \leq -3$

7. $5 + |x - 6| > 4$

8. $5 - |x - 6| > 4$

9. $3 - |x + 7| < 0$

10. $3 - |x + 7| < 3$

11. $2 - |2x - 3| \leq 1$

12. $4 - |5x - 3| > 1$

9. Classwork Answers

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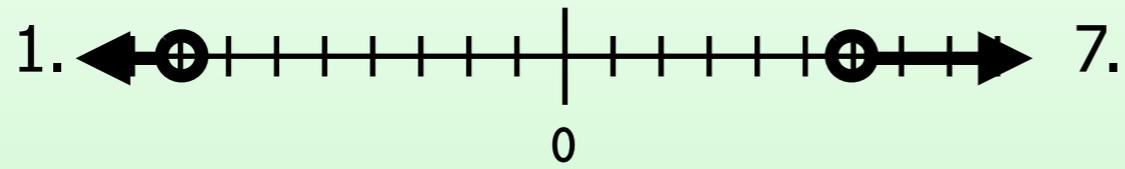
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9. Classwork Answers



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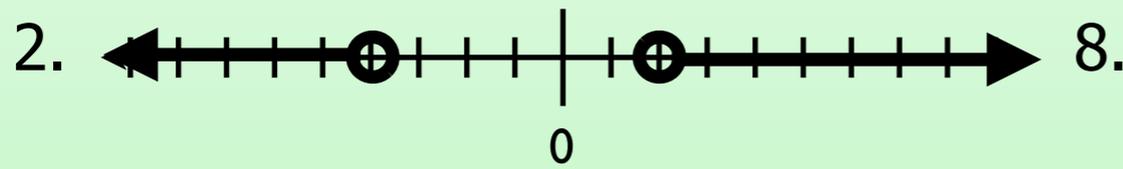
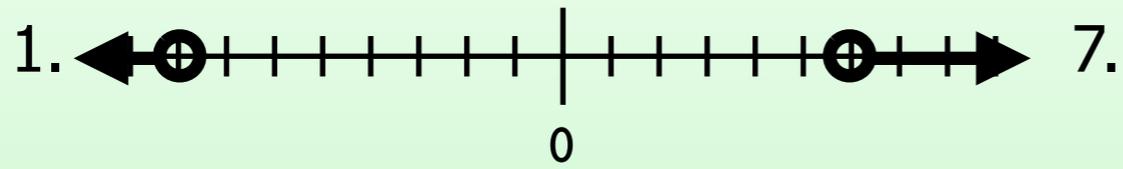
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9. Classwork Answers



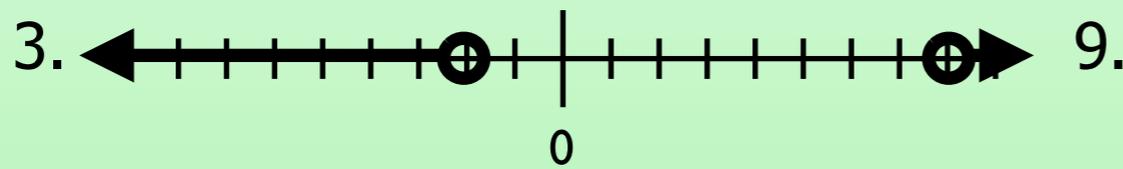
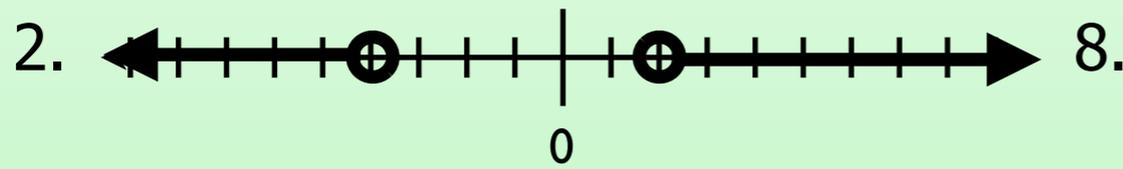
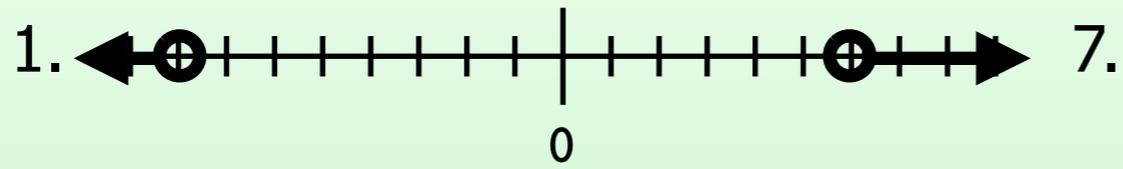
3. 9.

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5. 11.

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9. Classwork Answers

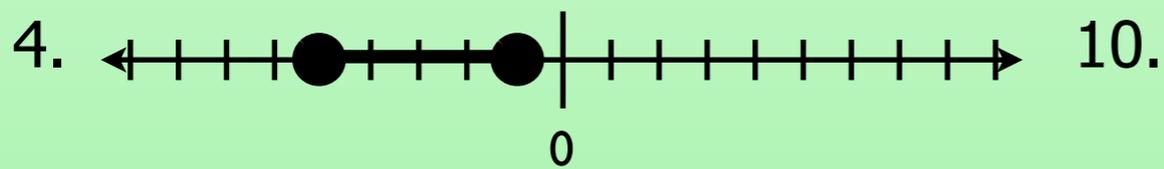
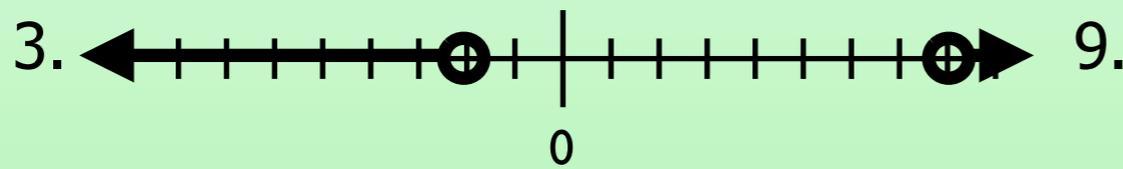
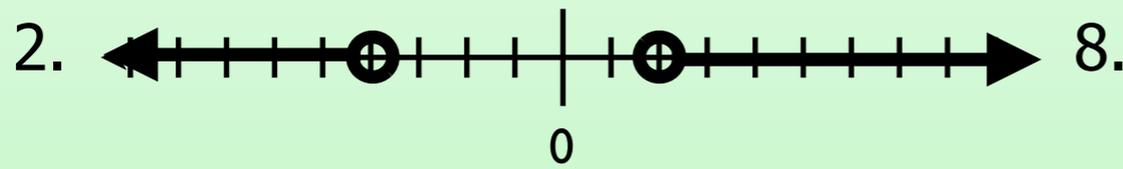
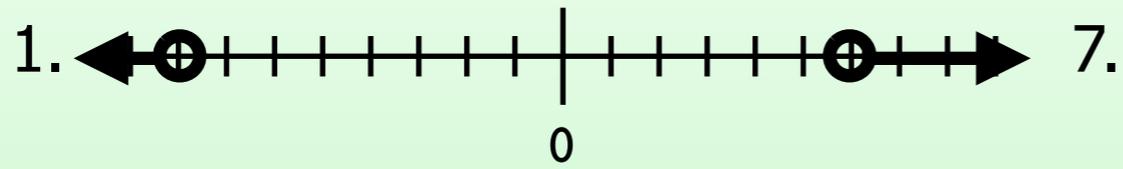


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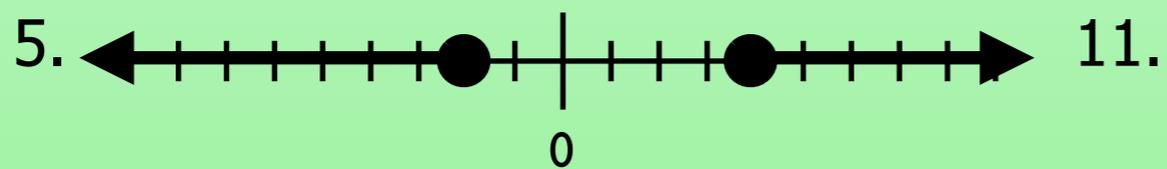
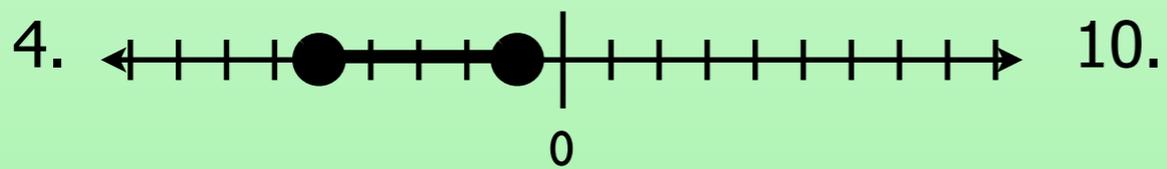
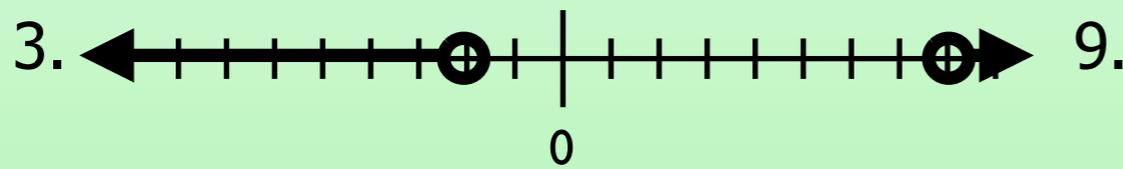
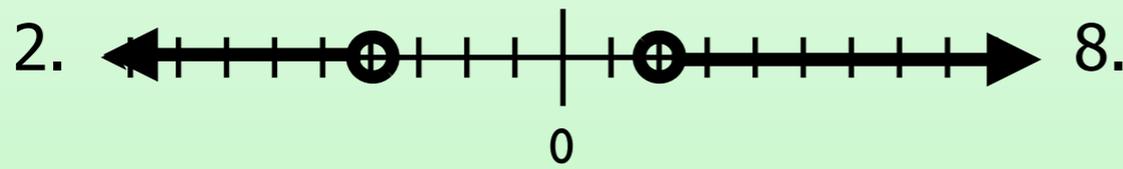
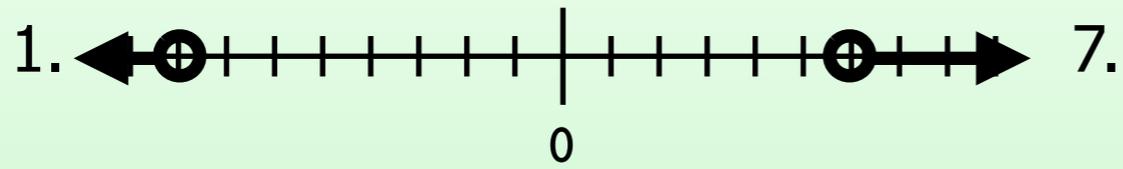
9. Classwork Answers



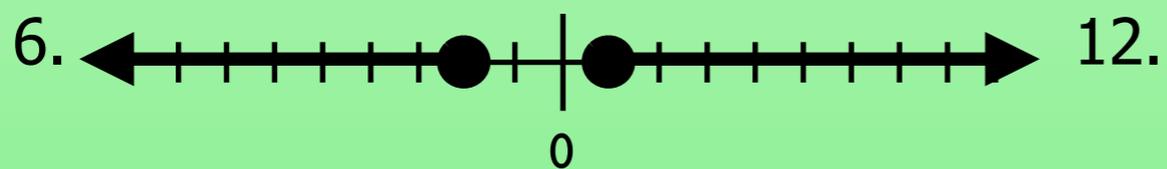
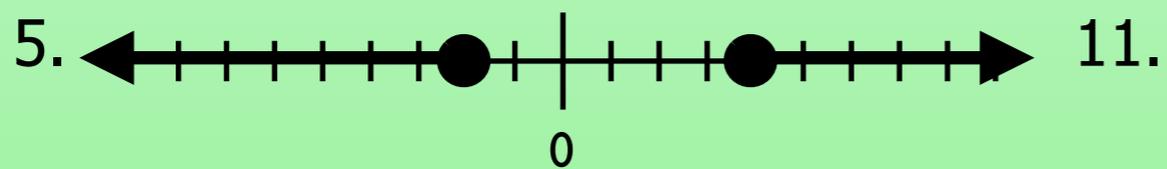
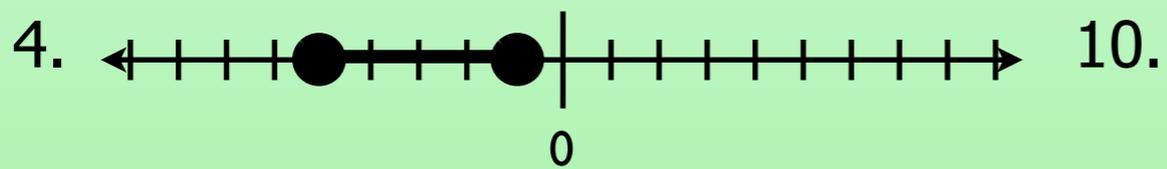
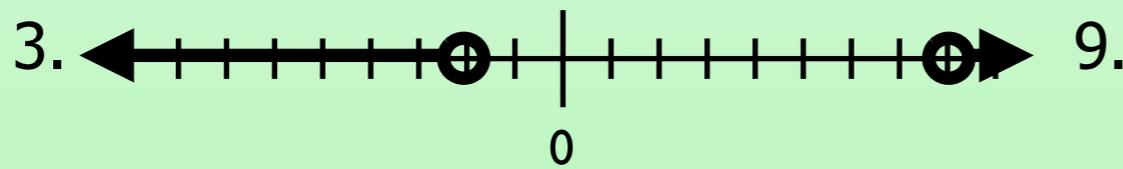
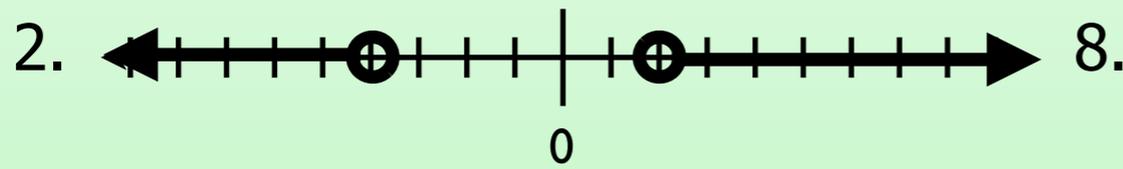
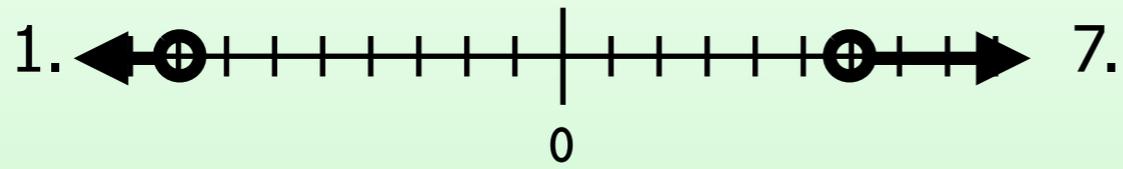
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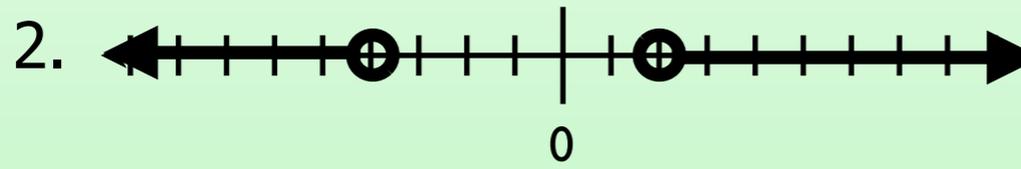
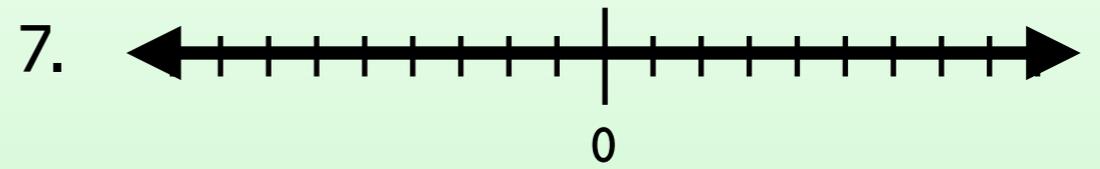
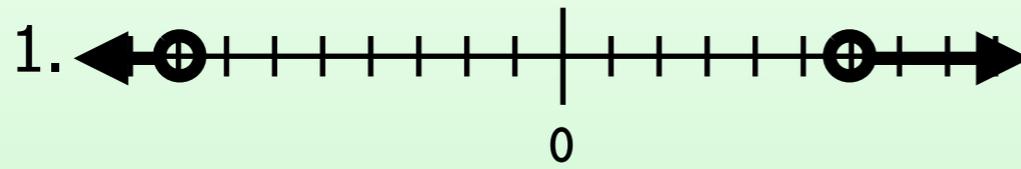
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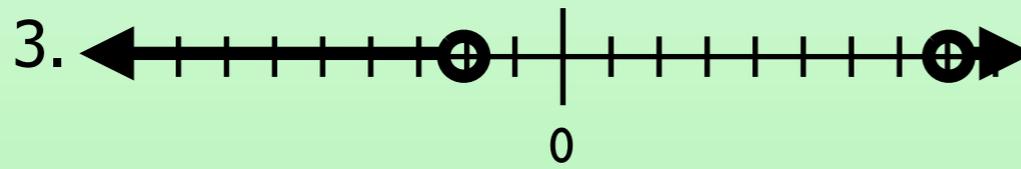
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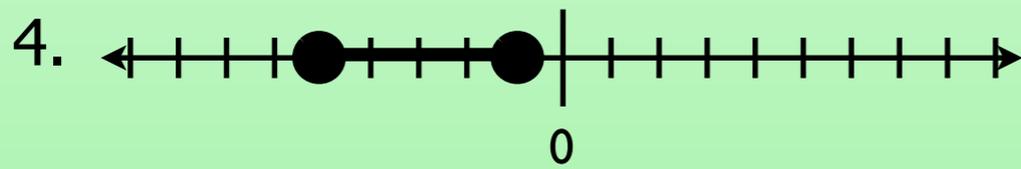
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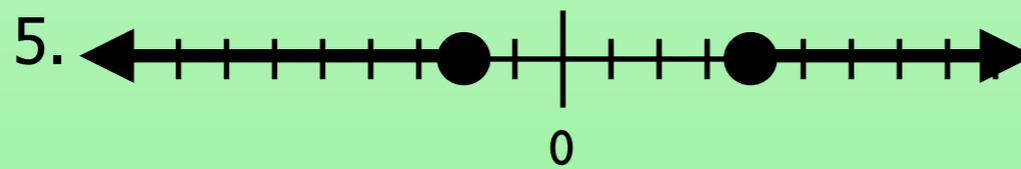
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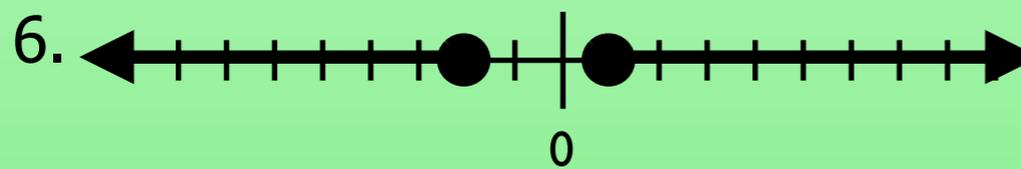
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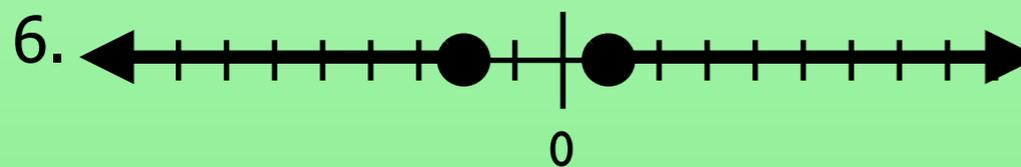
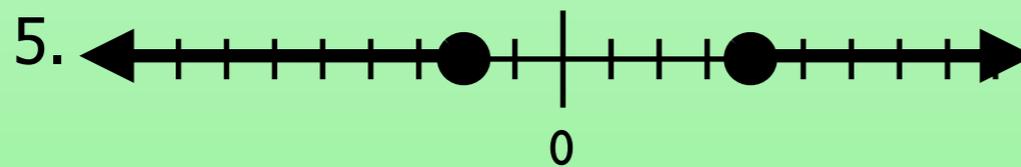
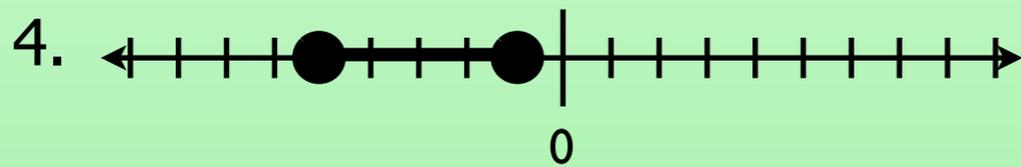
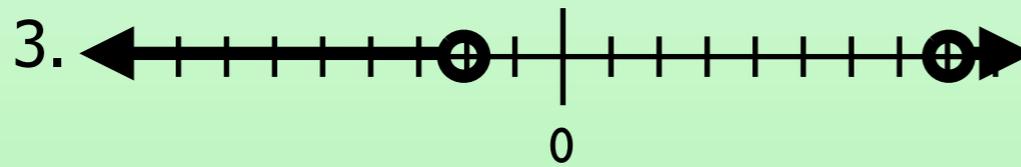
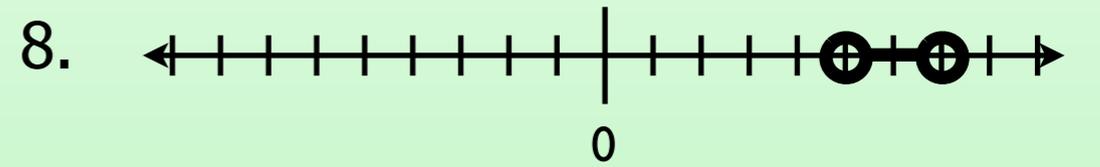
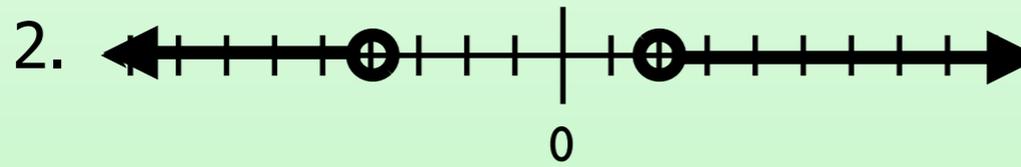
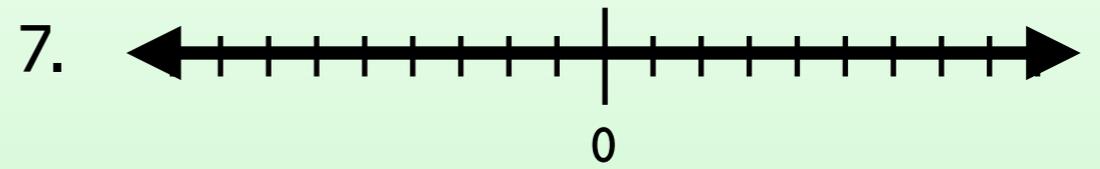
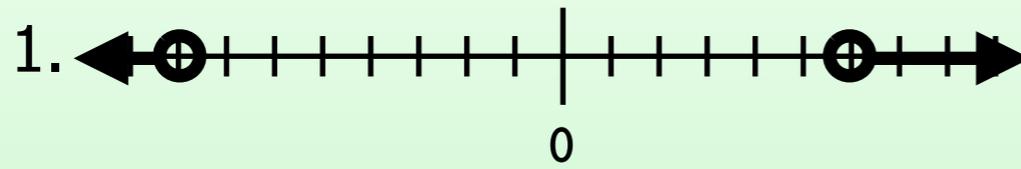


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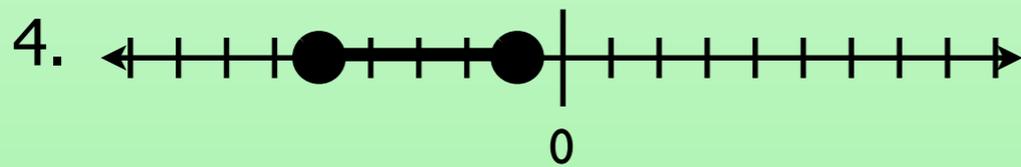
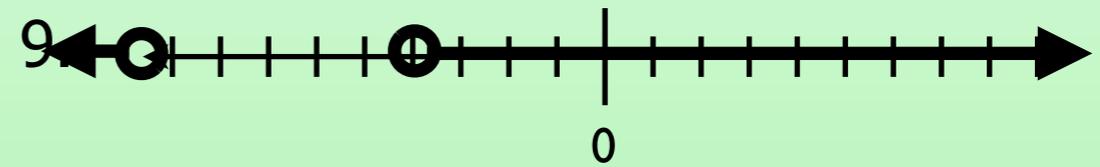
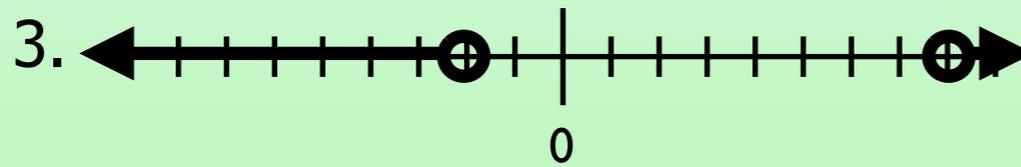
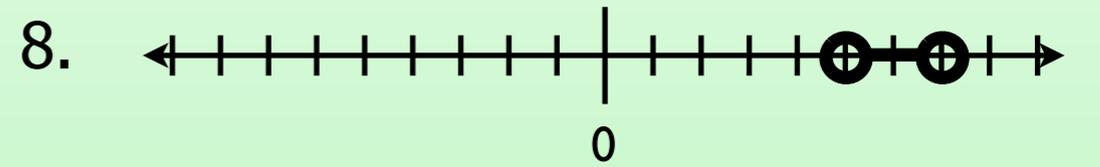
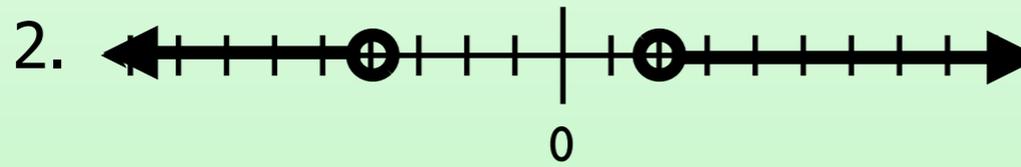
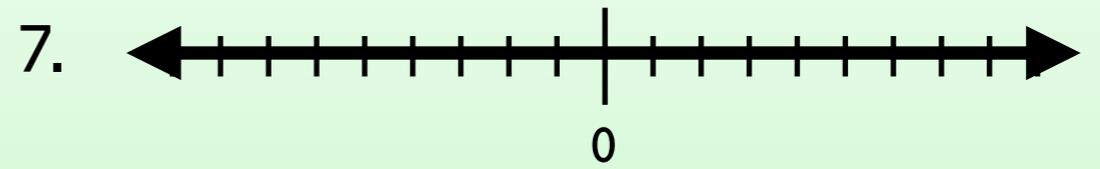
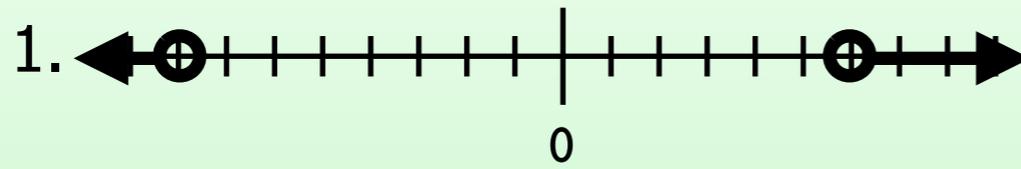


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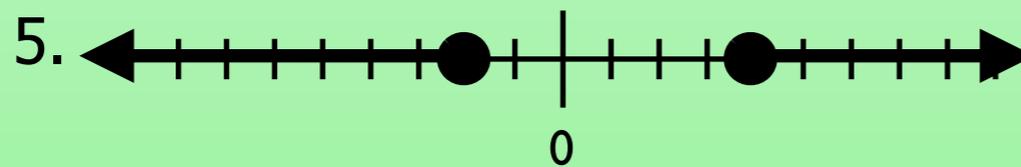
9. Classwork Answers



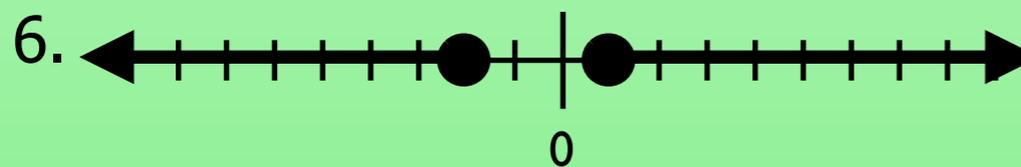
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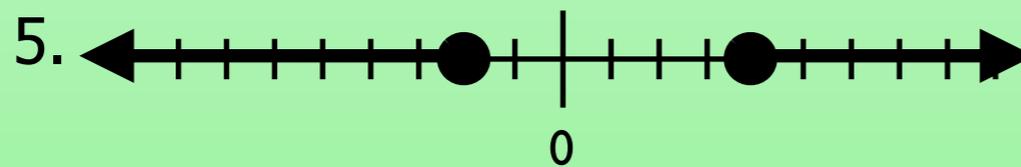
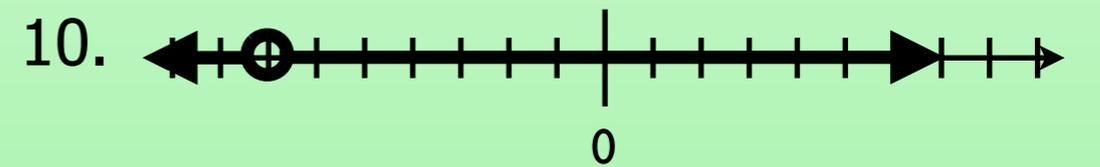
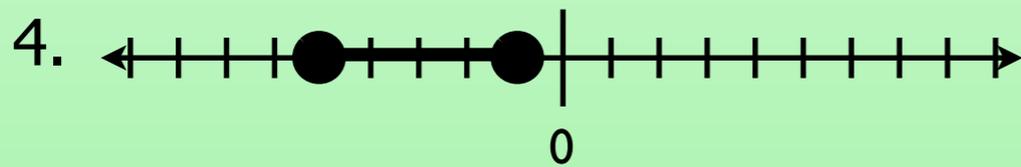
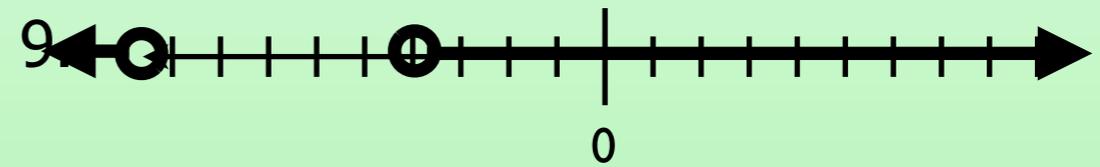
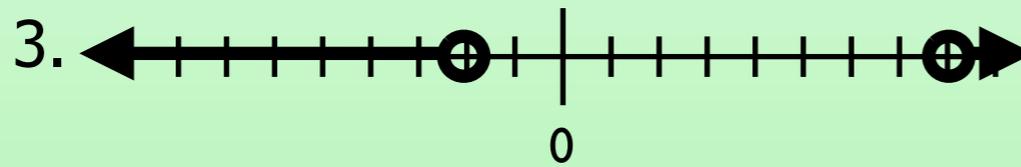
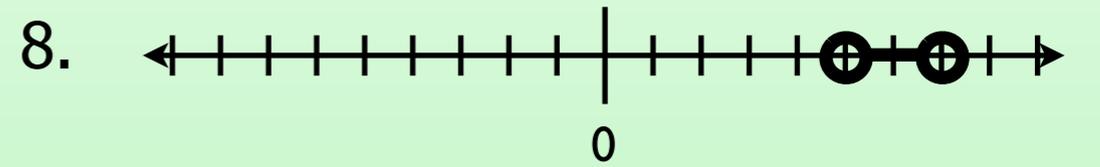
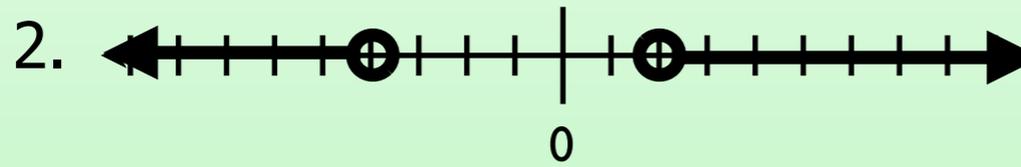
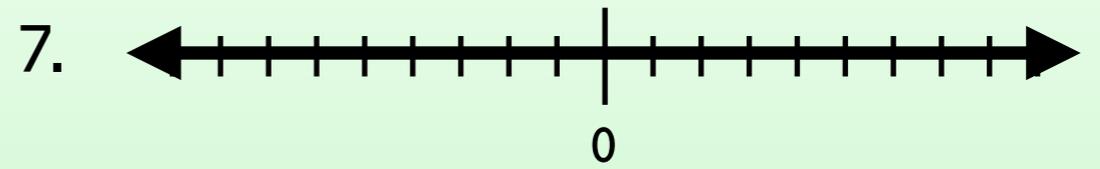
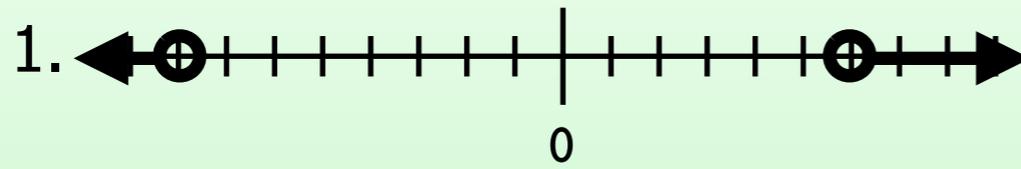


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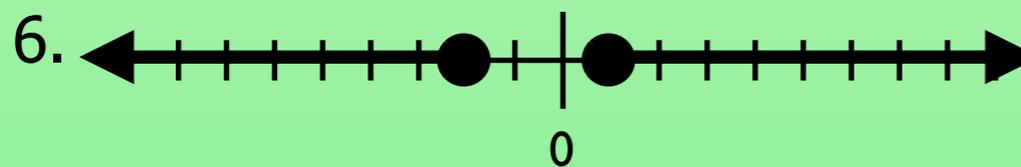


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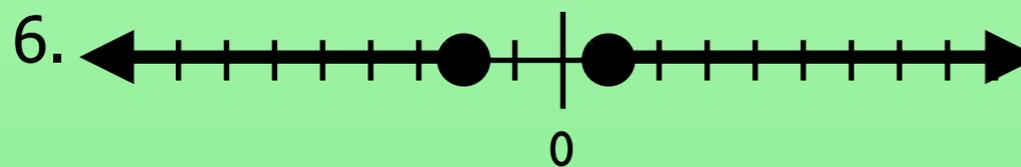
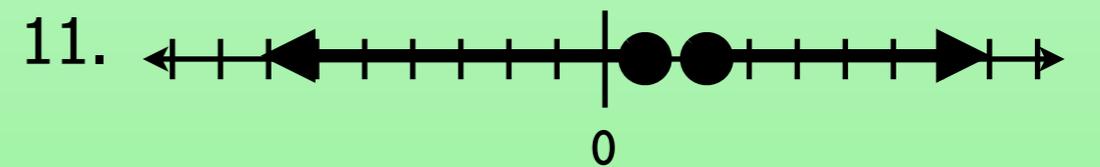
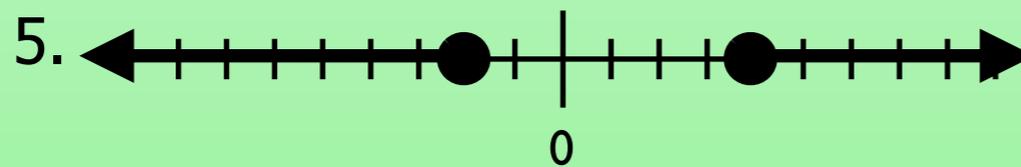
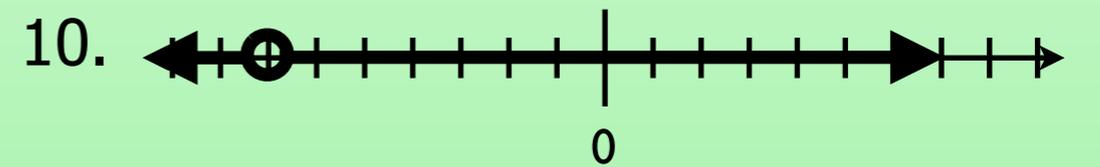
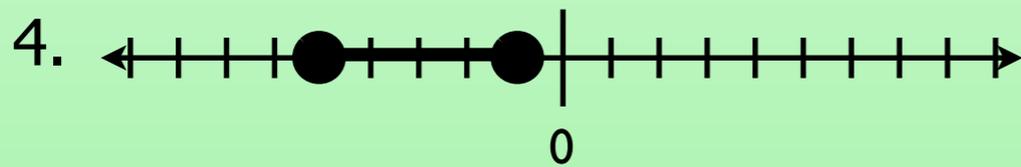
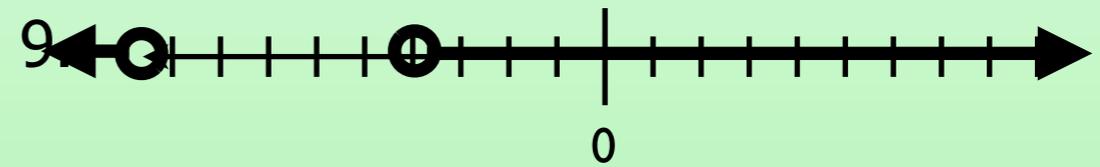
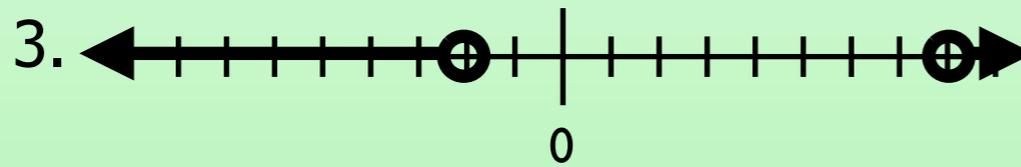
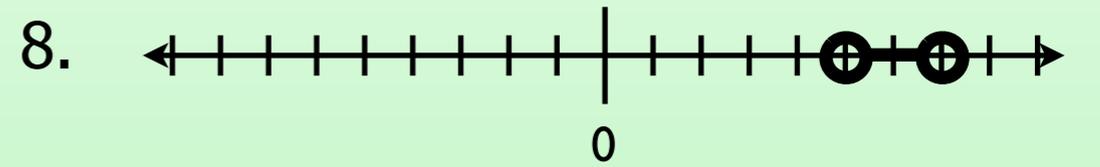
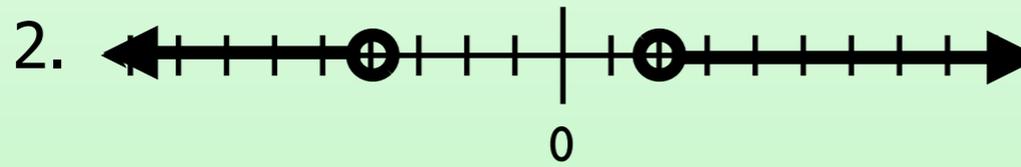
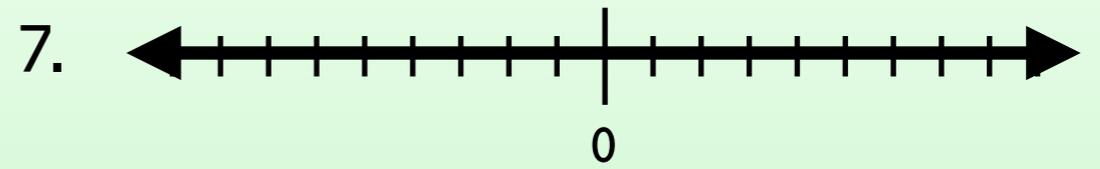
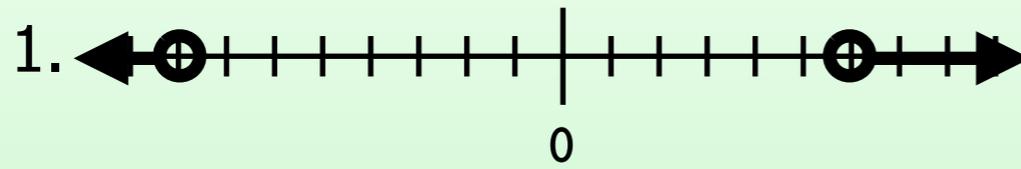


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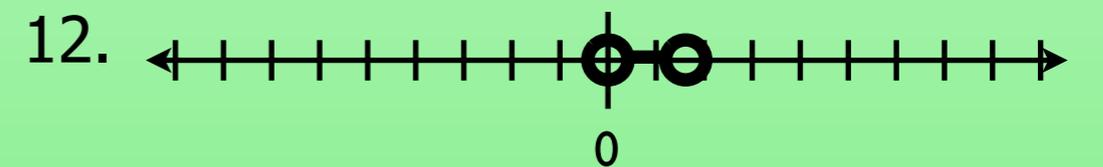
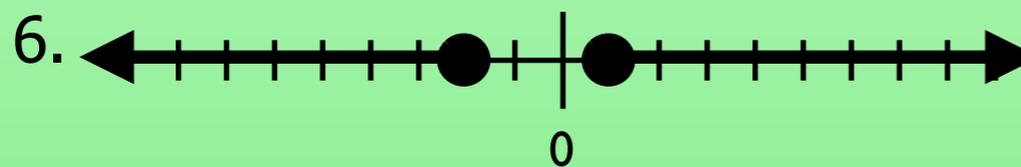
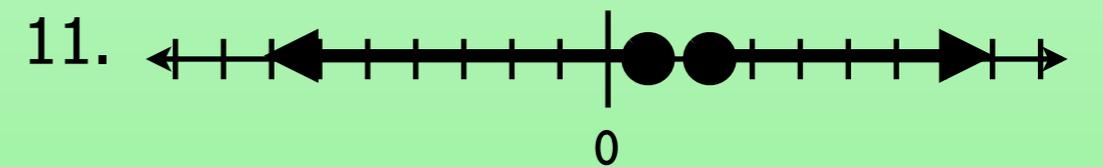
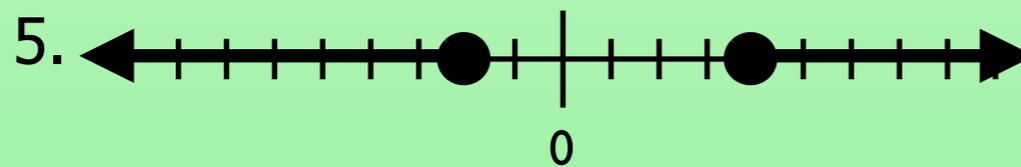
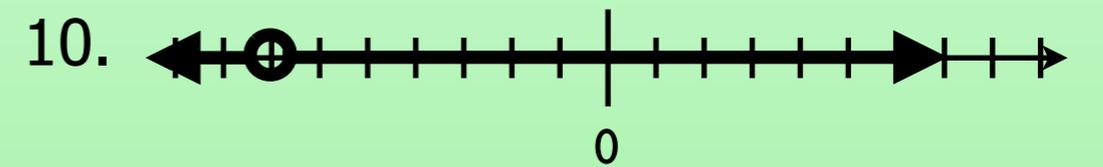
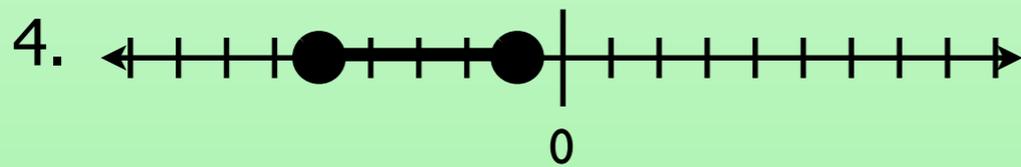
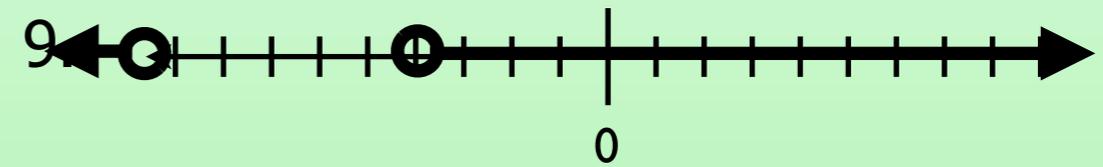
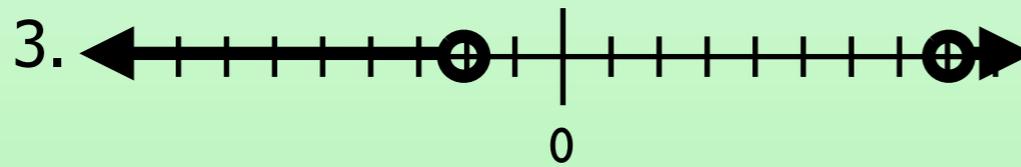
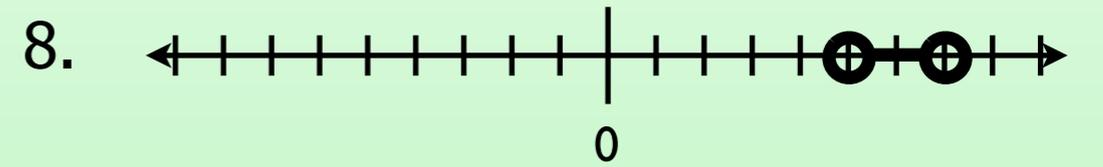
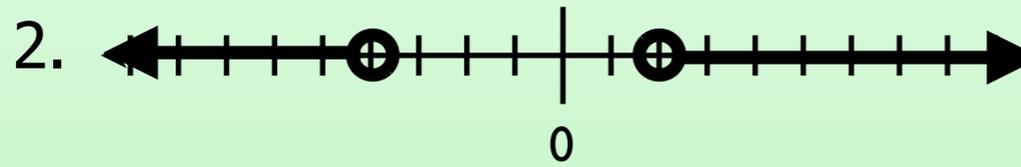
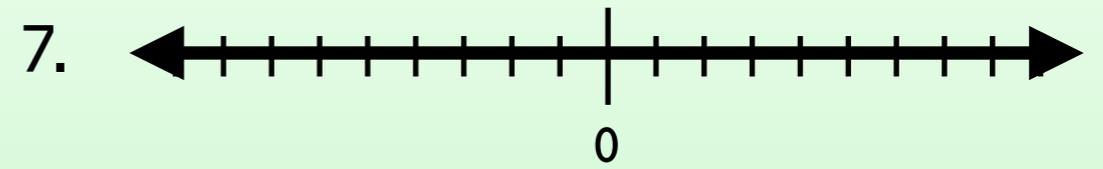
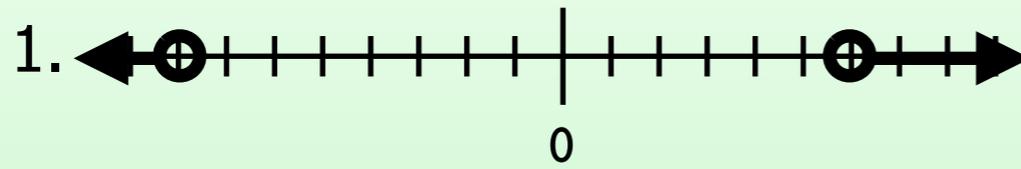
12.

9. Classwork Answers



12.

9. Classwork Answers



6. Homework

Practice

$$5 - |x + 2| < 1$$

Challenge

$$5 - |2x - 3| < 0$$