

Name _____

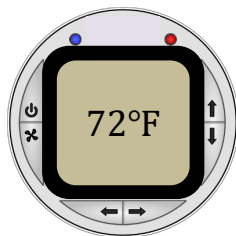
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Lesson 4: The Opposite of a Number

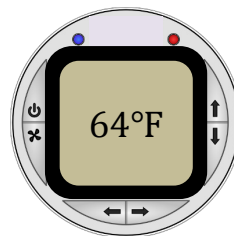
Exit Ticket

In a recent survey, a magazine reported that the preferred room temperature in the summer is 68°F . A wall thermostat, like the ones shown below, tells a room's temperature in degrees Fahrenheit.

Sarah's Upstairs Bedroom



Downstairs Bedroom



- Which bedroom is warmer than the recommended room temperature?
- Which bedroom is cooler than the recommended room temperature?
- Sarah notices that her room's temperature is 4°F above the recommended temperature and the downstairs bedroom's temperature is 4°F below the recommended temperature. She graphs 72 and 64 on a vertical number line and determines they are opposites. Is Sarah correct? Explain.
- After determining the relationship between the temperatures, Sarah now decides to represent 72°F as 4 and 64°F as -4 and graphs them on a vertical number line. Graph 4 and -4 on the vertical number line on the right. Explain what zero represents in this situation.

