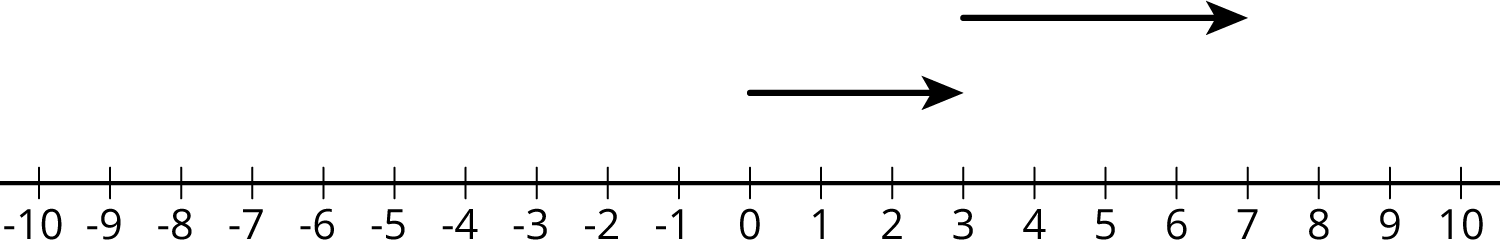
## Unit 5 Lesson 2: Changing Temperatures

### 1 Which One Doesn’t Belong: Arrows (Warm up)

#### Student Task Statement

Which pair of arrows doesn't belong?

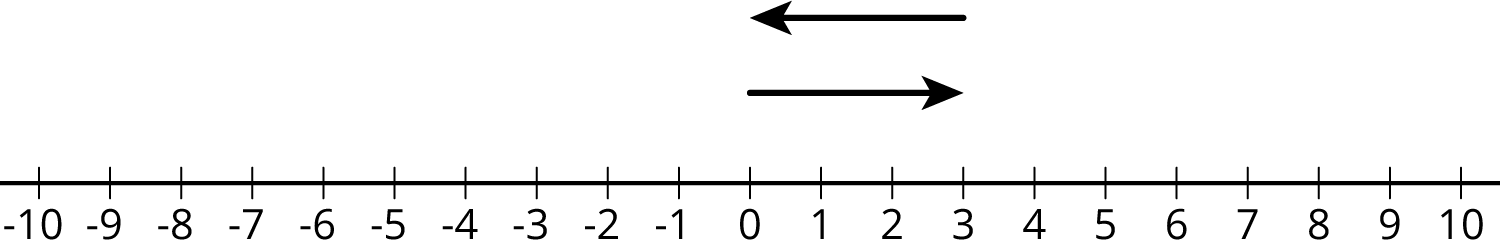


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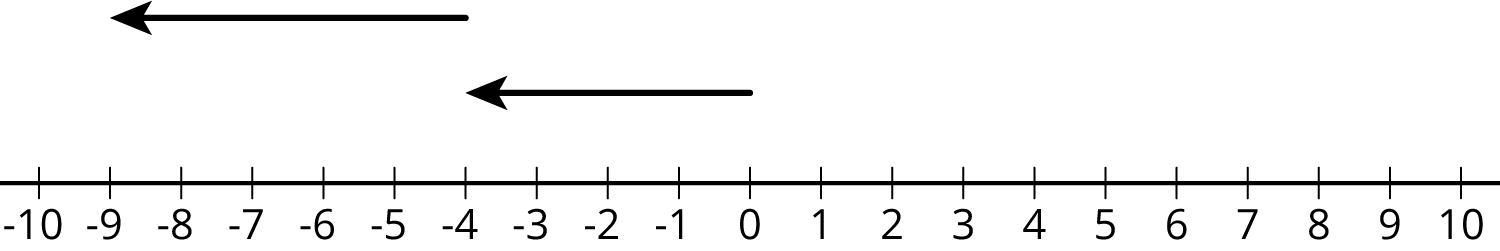


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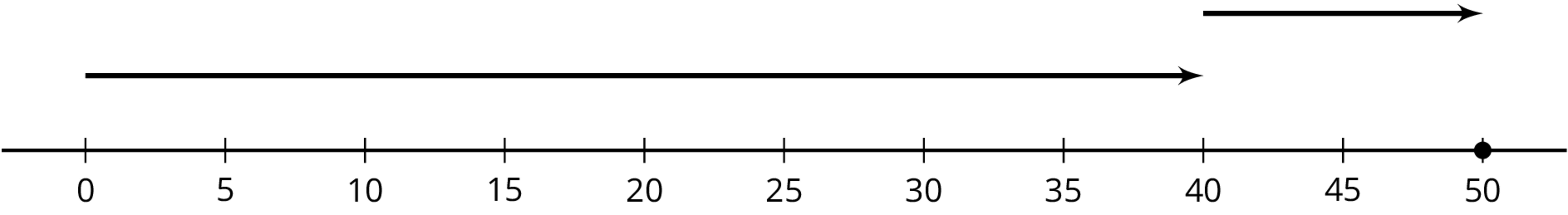
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### 2 Warmer and Colder

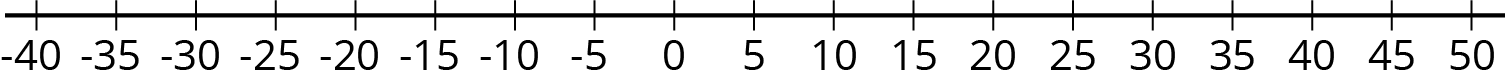
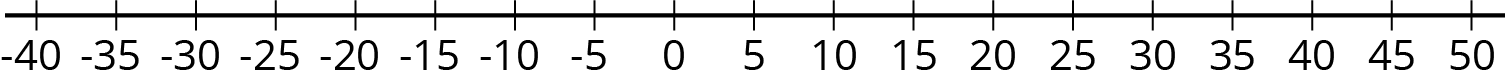
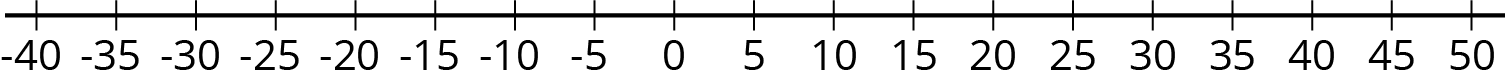
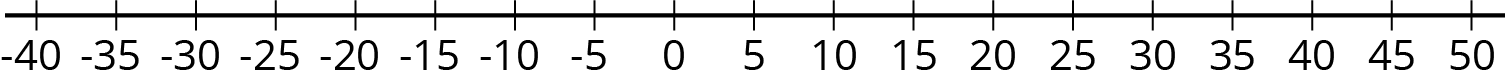
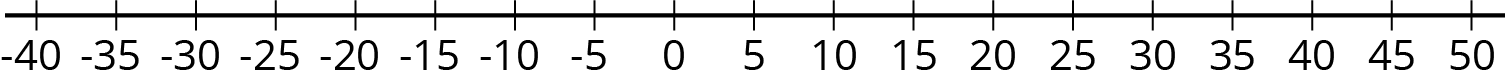
#### Images for Launch



#### Student Task Statement

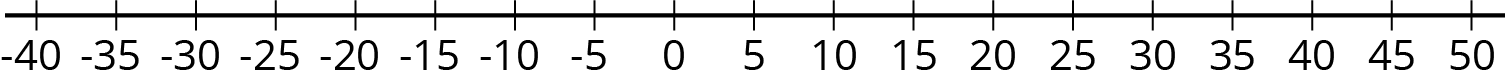
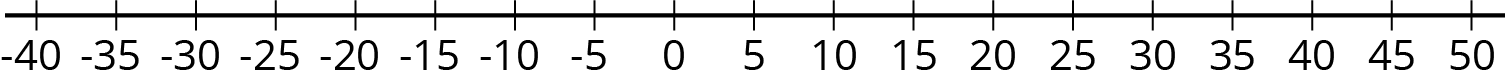
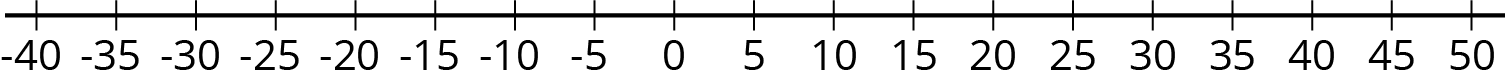
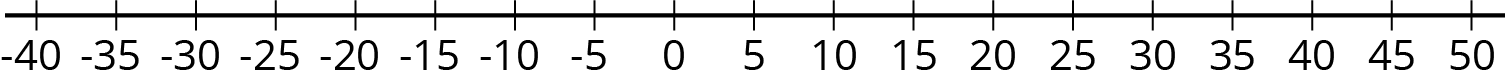
1. Complete the table and draw a number line diagram for each situation.

|  | * start () | * change () | * final () | * addition equation |
| --- | --- | --- | --- | --- |
| * a | * +40 | * 10 degrees warmer | * +50 |  |
| * b | * +40 | * 5 degrees colder |  |  |
| * c | * +40 | * 30 degrees colder |  |  |
| * d | * +40 | * 40 degrees colder |  |  |
| * e | * +40 | * 50 degrees colder |  |  |

* 1. 
  2. 
  3. 
  4. 
  5. 

1. Complete the table and draw a number line diagram for each situation.

|  | * start () | * change () | * final () | * addition equation |
| --- | --- | --- | --- | --- |
| * a | * -20 | * 30 degrees warmer |  |  |
| * b | * -20 | * 35 degrees warmer |  |  |
| * c | * -20 | * 15 degrees warmer |  |  |
| * d | * -20 | * 15 degrees colder |  |  |

* 1. 
  2. 
  3. 
  4. 

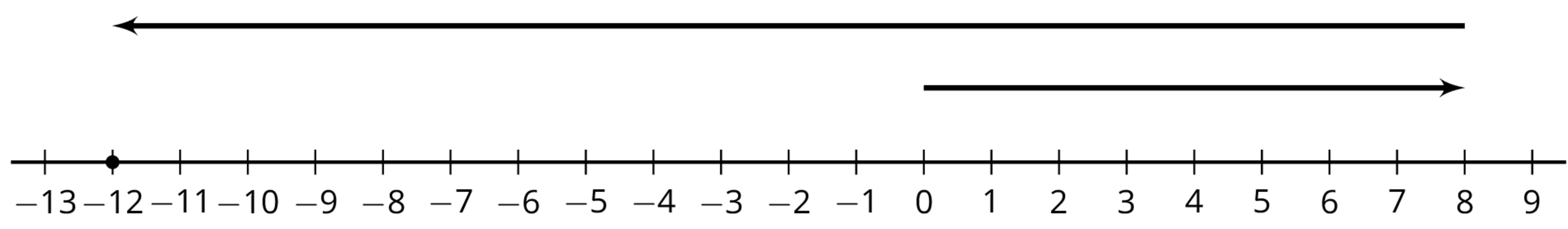
### 3 Winter Temperatures

#### Student Task Statement

One winter day, the temperature in Houston is Celsius. Find the temperatures in these other cities. Explain or show your reasoning.

1. In Orlando, it is warmer than it is in Houston.
2. In Salt Lake City, it is colder than it is in Houston.
3. In Minneapolis, it is colder than it is in Houston.
4. In Fairbanks, it is colder than it is in *Minneapolis*.
5. Write an addition equation that represents the relationship between the temperature in Houston and the temperature in Fairbanks.

#### Activity Synthesis





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