Find each temperature change.

1) A weather station predicted the temperature on Saturday would be 85°F. If the actual temperature was 11°F colder than their prediction, what temperature was it?

2) A scientist had a liquid that was 90°F. If he needed to heat it up another 20°F for an experiment, what temperature was he trying to make the liquid?

3) Sarah set the thermostat in her house to 72°F, which was 16°F cooler than the temperature outside. What temperature was it outside?

4) Sarah heated up a slice of pizza in the microwave. Before she put it in, the pizza was 66°F. If it was 102°F when she took it out, how much did the microwave heat it?

5) The instructions to cook a pizza say to set the oven at 343°F. If Sarah set her oven 14°F warmer than the instructions said, what temperature did she set her oven?

6) Sarah measured the temperature of her soda and found that it was 96°F. After putting it in her freezer for an hour it was 78°F. How much did the freezer cool her soda down?

7) The average temperature for January was 78°F. The average temperature for February was 20°F colder. What was the average temperature for February?

8) The temperature inside a truck was 90°F. After sitting in the sun for an hour the temperature rose to 110°F. How much did the truck warm up?

9) Tommy read in his science book about a planet that was 242°F during the day but at night the temperature dropped 79°F. What temperature was the planet at night?

10) A city in Alaska had a temperature of 67°F during the day, but at night the temperature dropped 24°F. What temperature was it at night?
Solve each problem.

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Answers

1. 74°F
2. 110°F
3. 88°F
4. 36°F
5. 357°F
6. 18°F
7. 58°F
8. 20°F
9. 163°F
10. 43°F
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### Finding Temperature Changes

#### Solve each problem.

1) A weather station predicted the temperature on Saturday would be 65°F. If the actual temperature was 15° colder than their prediction, what temperature was it?

2) A news station reported that the current temperature was 56°F, but next week it would be 22° warmer. What temperature will it be next week?

3) A city in Alaska had a temperature of 74°F during the day, but at night the temperature dropped to 48°F. How much colder was it at night?

4) The temperature inside a car was 120°F. After turning on the air conditioner the temperature dropped 26°. What temperature was it after the air conditioner was turned on?

5) On Sunday it was 67°F. On Monday it was 78° F. How much did the temperature change between Sunday and Monday?

6) Sarah measured the temperature of her soda and found that it was 77°F. After putting it in her freezer for an hour it was 52°F. How much did the freezer cool her soda down?

7) Sarah set the thermostat in her house to 73°F, which was 19° cooler than the temperature outside. What temperature was it outside?

8) When Sarah went to the park at 2:30 PM it was 82°F. By the time she left it had gotten 11° cooler. What temperature was it when she left the park?

9) Sarah poured a glass of tea that was 101°F. After she added some ice cubes the temperature dropped to 73°F. How much did the ice cool down her tea?

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Solve each problem.

1) Sarah poured a glass of tea that was 100°F. After she added some ice cubes the temperature dropped to 75°F. How much did the ice cool down her tea?

2) The instructions to cook a pizza say to set the oven at 339°F. If Sarah set her oven at 352°F, how much warmer was her oven than the instructions said?

3) A weather station predicted the temperature on Saturday would be 57°F. If the actual temperature was 10°F warmer than their prediction, what temperature was it?

4) A desert in Africa had an average temperature last year of 107°F. If the average temperature this year was 14°F warmer, what is the average temperature this year?

5) In July, the average temperature in Florida was 98°F, while the average temperature in California was 6°F cooler. What was the average temperature in California?

6) Sarah heated up a slice of pizza in the microwave. When she got the pizza out it was 148°F. If the microwave heated it up 44°F, what temperature was it when she originally put the pizza in?

7) The average temperature for January was 45°F. The average temperature for February was 17°F warmer. What was the average temperature for February?

8) Tommy read was reading a book about a planet that was 303°F during the day and 170°F at night. What is the difference between the temperature during the day and the temperature at night?

9) An industrial machine is 213°F when it's being used. After being unused for an hour the machine cools down to 167°F. How much does the machine cool down?

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## Finding Temperature Changes

Solve each problem.

1. Sarah poured a glass of tea that was 96°F. After she added some ice cubes the temperature dropped 20°. What temperature was the tea after she added the ice?

2. On Sunday it was 53°F. On Monday it was 18° warmer. What temperature was it on Monday?

3. The temperature inside a freezer was 10°F. After the door was left open for an hour the temperature had risen 21°. What temperature was it after the door was left open?

4. In July, the average temperature in Miami, FL was 108°F, while the average temperature in Orlando, FL was 97°F. How much less was the temperature in Orlando?

5. Sarah measured the temperature of her soda and found that it was 73°F. After putting it in her freezer for an hour it was 62°F. How much did the freezer cool her soda down?

6. A city in Alaska had a temperature of 87°F during the day, but at night the temperature dropped 30°. What temperature was it at night?

7. The average temperature for January was 52°F. The average temperature for February was 17° warmer. What was the average temperature for February?

8. Sarah heated up a slice of pizza in the microwave. Before she put it in, the pizza was 53°F. If the microwave heated it up 30°, what temperature was it when she took it out?

9. The temperature inside a store was 99°F. If the temperature outside the store was 29° colder, what temperature was it outside?

10. A weather station predicted the temperature on Saturday would be 68°F. If the actual temperature was 81°F, how much warmer was it then they predicted?

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### Finding Temperature Changes

#### Solve each problem.

1. **Sarah poured a glass of tea that was 96°F. After she added some ice cubes the temperature dropped 20°. What temperature was the tea after she added the ice?**

   - **Answer:** 76°F

2. **On Sunday it was 53°F. On Monday it was 18° warmer. What temperature was it on Monday?**

   - **Answer:** 71°F

3. **The temperature inside a freezer was 10°F. After the door was left open for an hour the temperature had risen 21°. What temperature was it after the door was left open?**

   - **Answer:** 31°F

4. **In July, the average temperature in Miami, FL was 108°F, while the average temperature in Orlando, FL was 97°F. How much less was the temperature in Orlando?**

   - **Answer:** 11°F

5. **Sarah measured the temperature of her soda and found that it was 73°F. After putting it in her freezer for an hour it was 62°F. How much did the freezer cool her soda down?**

   - **Answer:** 11°F

6. **A city in Alaska had a temperature of 87°F during the day, but at night the temperature dropped 30°. What temperature was it at night?**

   - **Answer:** 57°F

7. **The average temperature for January was 52°F. The average temperature for February was 17° warmer. What was the average temperature for February?**

   - **Answer:** 69°F

8. **Sarah heated up a slice of pizza in the microwave. Before she put it in, the pizza was 53°F. If the microwave heated it up 30°, what temperature was it when she took it out?**

   - **Answer:** 83°F

9. **The temperature inside a store was 99°F. If the temperature outside the store was 29° colder, what temperature was it outside?**

   - **Answer:** 70°F

10. **A weather station predicted the temperature on Saturday would be 68°F. If the actual temperature was 81°F, how much warmer was it then they predicted?**

   - **Answer:** 13°F
Solve each problem.

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Solve each problem.

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2) A scientist had a liquid that was 90°F. If he needed to heat it up another 17° for an experiment, what temperature was he trying to make the liquid?

3) The instructions to cook a turkey say to set the oven at 361°F. If Sarah set her oven 13° cooler than the instructions said, what temperature did she set her oven?

4) On Sunday it was 66°F. On Monday it was 10° colder. What temperature was it on Monday?

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2) Sarah made herself a cup of hot chocolate that was 80°F. After she put it in the microwave the temperature rose 22°. What temperature was the hot chocolate after she heated it?

3) In July, the average temperature in Florida was 106°F, while the average temperature in California was 15° cooler. What was the average temperature in California?

4) The temperature inside a truck was 86°F. After sitting in the sun for an hour the temperature rose to 116° F. How much did the truck warm up?

5) An industrial machine is 200°F when it's being used. After being unused for an hour the machine cools down 42°. What temperature is the machine after it cools down?

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10) The temperature inside a store was 89°F. If the temperature outside the store was 29° colder, what temperature was it outside?

Answers

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 

Finding Temperature Changes

www.CommonCoreSheets.com
Solve each problem.

1) A city in Alaska had a temperature of 78°F during the day, but at night the temperature dropped 29°. What temperature was it at night?

2) The temperature inside a store was 69°F. If the temperature outside the store was 20° warmer, what temperature was it outside?

3) A weather station predicted the temperature on Saturday would be 105°F. If the actual temperature was 18° colder than their prediction, what temperature was it?

4) Sarah set the thermostat in her house to 87°F, which was 15° warmer than the temperature outside. What temperature was it outside?

5) When Tommy went to the beach in the morning it was 66°F. When he came back in the afternoon it was 18° warmer. What temperature was it in the afternoon?

6) In July, the average temperature in Miami, FL was 105°F, while the average temperature in Orlando, FL was 97°F. How much less was the temperature in Orlando?

7) A scientist had a liquid that was 68°F. If he needed it to be 85°F for an experiment, how much would he need to heat it up?

8) On Sunday it was 72°F. On Monday it was 14° warmer. What temperature was it on Monday?

9) An industrial machine is 212°F when it's being used. After being unused for an hour the machine cools down to 153°F. How much does the machine cool down?

10) The temperature inside a truck was 89°F. After sitting in the sun for an hour the temperature rose to 119° F. How much did the truck warm up?
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<table>
<thead>
<tr>
<th>49°</th>
<th>87°</th>
<th>8°</th>
<th>30°</th>
<th>72°</th>
</tr>
</thead>
<tbody>
<tr>
<td>89°</td>
<td>86°</td>
<td>59°</td>
<td>17°</td>
<td>84°</td>
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1) The instructions to cook a turkey say to set the oven at 344°F. If Sarah set her oven 16° cooler than the instructions said, what temperature did she set her oven?

2) A desert in Africa had an average temperature last year of 115°F. If the average temperature this year was 15° warmer, what is the average temperature this year?

3) An industrial machine is 184°F when it's being used. After being unused for an hour the machine cools down to 135°F. How much does the machine cool down?

4) A scientist had a liquid that was 60°F. If he needed it to be 79°F for an experiment, how much would he need to heat it up?

5) The temperature inside a truck was 81°F. After sitting in the sun for an hour the temperature rose to 105°F. How much did the truck warm up?

6) When Sarah went to the park at 2:30 it was 87°F. By the time she left it had gotten 18° warmer. What temperature was it when she left the park?

7) In July, the average temperature in Florida was 110°F, while the average temperature in California was 12° cooler. What was the average temperature in California?

8) On Sunday it was 78°F. On Monday it was 15° colder. What temperature was it on Monday?

9) Sarah measured the temperature of her soda and found that it was 47°F. After sitting out for an hour it had warmed 22°. What temperature was the soda after an hour?

10) Sarah heated up a slice of pizza in the microwave. Before she put it in, the pizza was 58°F. If it was 94°F when she took it out, how much did the microwave heat it?
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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>1. 328°</td>
</tr>
<tr>
<td>2. 130°</td>
</tr>
<tr>
<td>3. 49°</td>
</tr>
<tr>
<td>4. 19°</td>
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<tr>
<td>5. 24°</td>
</tr>
<tr>
<td>6. 105°</td>
</tr>
<tr>
<td>7. 98°</td>
</tr>
<tr>
<td>8. 63°</td>
</tr>
<tr>
<td>9. 69°</td>
</tr>
<tr>
<td>10. 36°</td>
</tr>
</tbody>
</table>
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<tr>
<th>Solve each problem.</th>
<th>Answers</th>
</tr>
</thead>
<tbody>
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<td>24°</td>
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Solve each problem.

1) An industrial machine is 220°F when it's being used. After being unused for an hour the machine cools down 56°. What temperature is the machine after it cools down?

2) The temperature inside a car was 108°F. After turning on the air conditioner the temperature dropped 21°. What temperature was it after the air conditioner was turned on?

3) Sarah poured a glass of tea that was 99°F. After she added some ice cubes the temperature dropped to 79°F. How much did the ice cool down her tea?

4) A news station reported that the current temperature was 124°F, but when the cold front came in later, the temperature would drop down to 81°F. How much will the cold front reduce the temperature?

5) A desert in Africa had an average temperature last year of 130°F. If the average temperature this year was 18° warmer, what is the average temperature this year?

6) Sarah set the thermostat in her house to 93°F, which was 17° warmer than the temperature outside. What temperature was it outside?

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8) When Sarah went to the park at 2:30 it was 81°F. By the time she left it had gotten 19° warmer. What temperature was it when she left the park?

9) The temperature at 7:00 PM was 91°F. By 11:00 PM it had cooled down 17°. What was the temperature at 11:00 PM?

10) When Tommy went to the beach in the morning it was 56°F. When he came back later in the afternoon it was 70°F. What is the difference in temperature between the morning and afternoon?
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<table>
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<tbody>
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<td>1. 164°F</td>
</tr>
<tr>
<td>2. 87°F</td>
</tr>
<tr>
<td>3. 20°F</td>
</tr>
<tr>
<td>4. 43°F</td>
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<tr>
<td>5. 148°F</td>
</tr>
<tr>
<td>6. 76°F</td>
</tr>
<tr>
<td>7. 85°F</td>
</tr>
<tr>
<td>8. 100°F</td>
</tr>
<tr>
<td>9. 74°F</td>
</tr>
<tr>
<td>10. 14°F</td>
</tr>
</tbody>
</table>
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**Solve each problem.**

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<th>20°</th>
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<tbody>
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2) The temperature inside a car was 126°F. After turning on the air conditioner the temperature dropped 30°. What temperature was it after the air conditioner was turned on?

3) The temperature at 7:00 AM was 44°F. By 11:00 AM it had warmed up 12°. What was the temperature at 11:00 AM?

4) The temperature inside a store was 71°F. If the temperature outside the store was 15° warmer, what temperature was it outside?

5) Sarah measured the temperature of her soda and found that it was 74°F. After putting it in her freezer for an hour it cooled off 26°. What temperature was the soda after an hour?

6) A news station reported that the current temperature was 48°F, but next week it would be 26° warmer. What temperature will it be next week?

7) In July, the average temperature in Miami, FL was 110°F, while the average temperature in Orlando, FL was 96°F. How much less was the temperature in Orlando?

8) A weather station predicted the temperature on Saturday would be 66°F. If the actual temperature was 82°F, how much warmer was it then they predicted?

9) The average temperature for January was 30°F. The average temperature for February was 42°F. How much warmer was February than January?

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