



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 5



Topic
Temperature



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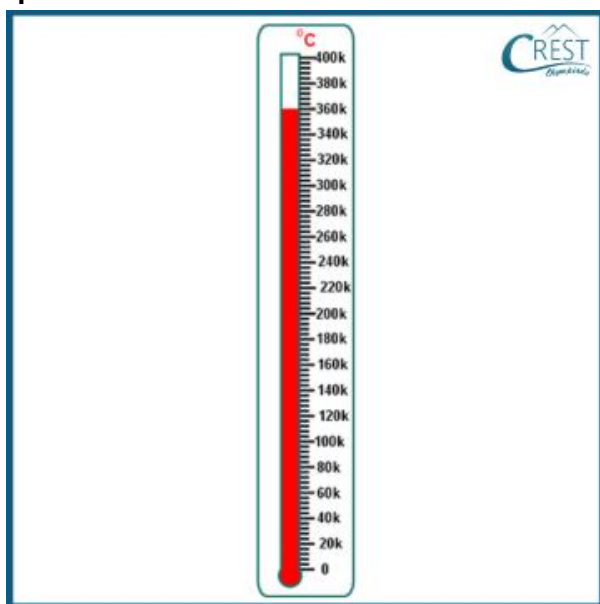
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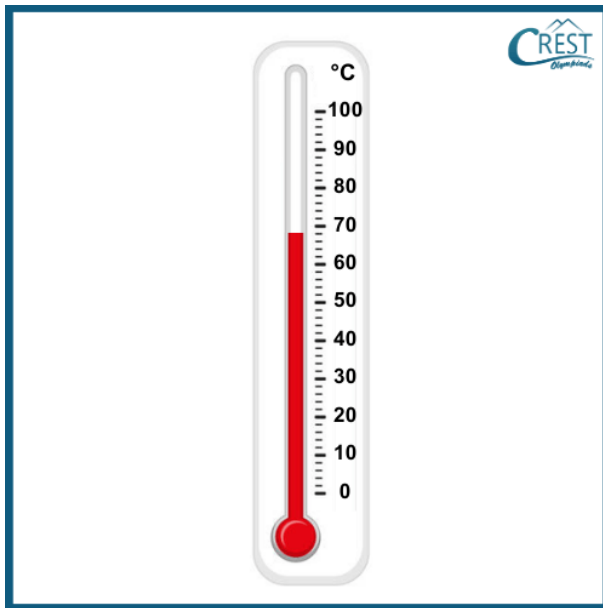
Worksheet on Temperature

1. On his birthday, the temperature of Cuba was 31.2°C . The temperature will fall to 12.39°C in a couple of days. What will be the temperature of Cuba now?
 - a. 8.81°C
 - b. 18.81°C
 - c. 18.18°C
 - d. 81.81°C
2. What is the temperature in Celsius if the temperature is 42.31 K more than the temperature shown on the thermometer?

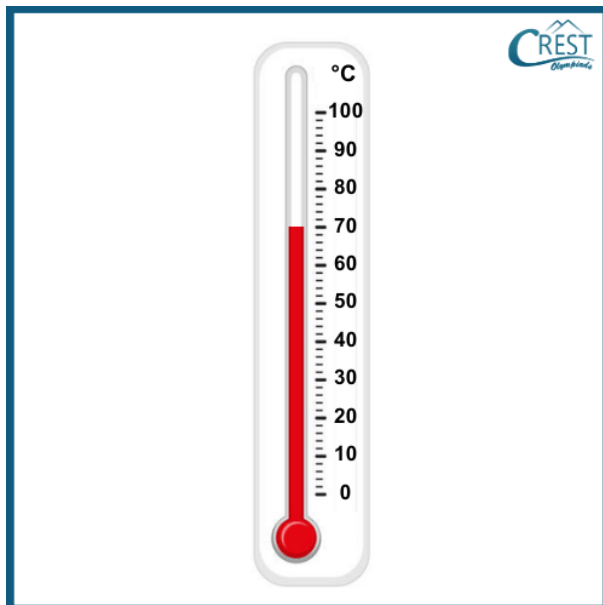


- a. 129.16°C
 - b. 120°C
 - c. 128°C
 - d. 140°C
3. The temperature in the morning on my balcony is 21.8°C . It went up by 13.2°C at noon and further went down by 20.3°C in the evening. What is the temperature in the evening?
 - a. 10.7°C
 - b. 14.7°C
 - c. 15.4°C
 - d. 17.4°C
 4. The temperature was 43.2°C on Sunday. On Monday, It had been dropping by 6.24°C and on Tuesday it was increasing by 8.04°C . What was the temperature in Fahrenheit on Tuesday?
 - a. 83°F
 - b. 93°F
 - c. 103°F
 - d. 113°F

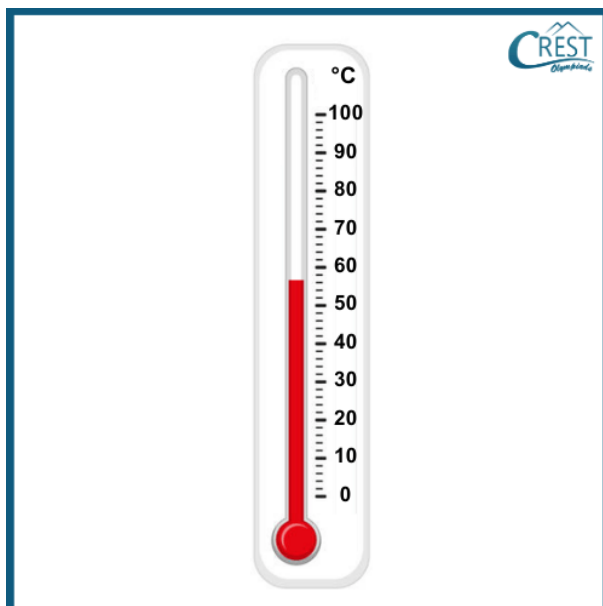
5. Which of the following thermometers shows 6°C less than the temperature shown on the given thermometer?



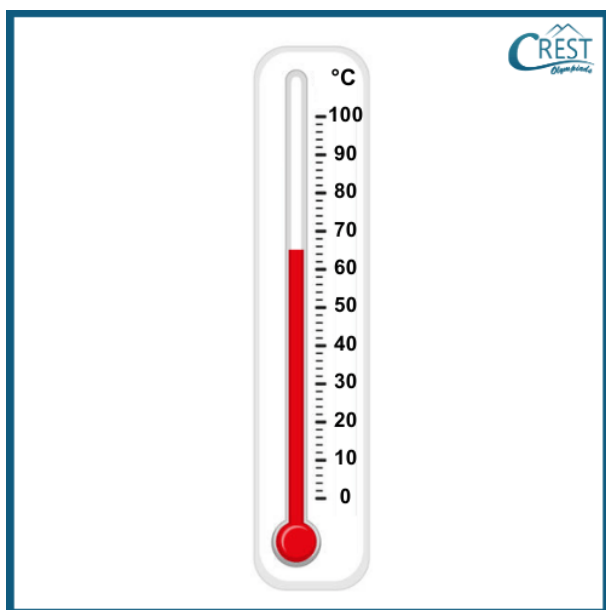
a.



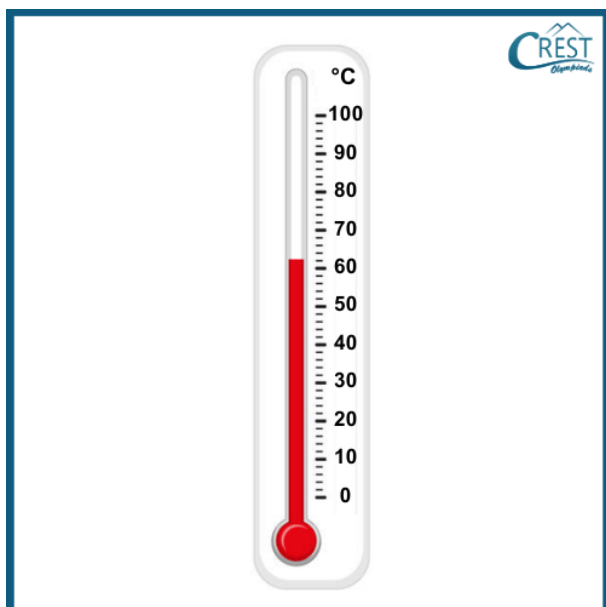
b.



c.



d.



Answer Key

1. b - 18.81°C

Explanation: Temperature of Cuba = 31.2°C

Temperature falls (decrease) in a couple of days, temperature = 12.39°C

Now, the temperature of Cuba = $(31.2 - 12.39)^{\circ}\text{C}$
= 18.81°C

2. a - 129.16°C

Explanation: Temperature shown on the thermometer = 360 K

The room temperature is 42.31 K more than the temperature shown on the thermometer.

Room temperature = 360 K + 42.31 K = 402.31 K

Using $[^{\circ}\text{C}] = [\text{K}] - 273.15$

Room temperature in Kelvin = 402.31 K - 273.15 = 129.16°C

3. b - 14.7°C

Explanation: Temperature in the morning = 21.8°C

Temperature at noon = $21.8^{\circ}\text{C} + 13.2^{\circ}\text{C}$
= 35°C

Temperature in the evening = $35^{\circ}\text{C} - 20.3^{\circ}\text{C}$
= 14.7°C

4. d - 113°F

Explanation: Temperature on Sunday = 43.2°C

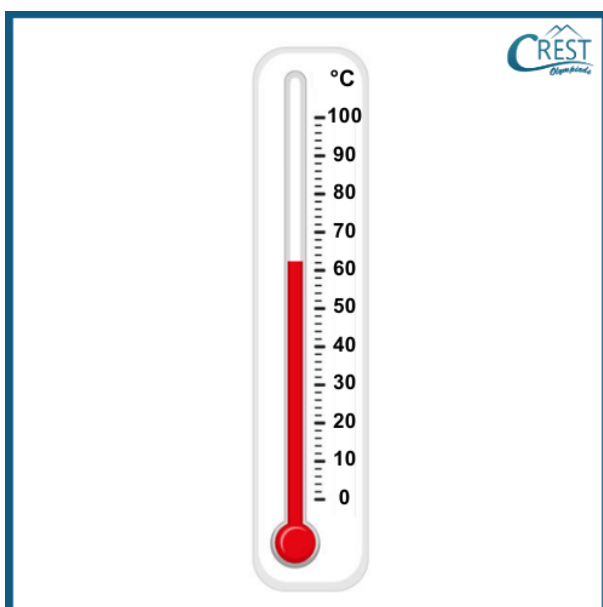
Temperature on Monday = $(43.2 - 6.24)^{\circ}\text{C}$
= 36.96°C

Temperature on Tuesday = $(36.96 + 8.04)^{\circ}\text{C}$
= 45°C

Using $[^{\circ}\text{F}] = [^{\circ}\text{C}] \times \frac{9}{5} + 32$

Temperature in fahrenheit on Tuesday = $[45^{\circ}\text{C}] \times \frac{9}{5} + 32$
= $(81 + 32)^{\circ}\text{F}$
= 113°F

5. d -



Explanation: Each marking shows 2°C on the thermometer.

So, temperature shown on the thermometer = 68°C

Now, $68^{\circ}\text{C} - 6^{\circ}\text{C} = 62^{\circ}\text{C}$

Hence, temperature on the thermometer used in the option (d) is 6°C less than the temperature shown in the thermometer.

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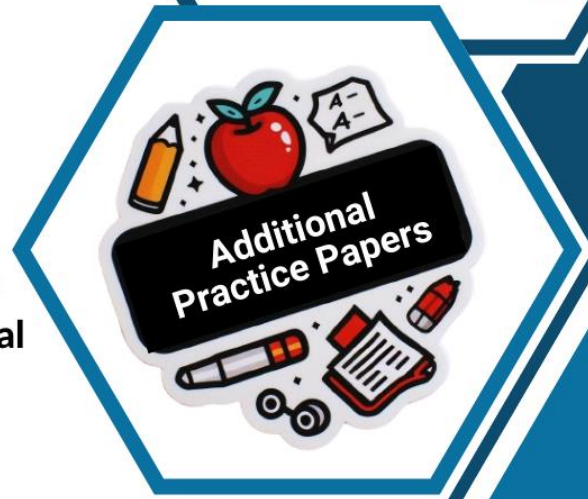
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