

## Measurement: Skill 5 - 17C

### Temperature

Test question 17C.  $12^{\circ}\text{C}$  \_\_\_\_\_  $^{\circ}\text{F}$

$$\begin{aligned} 2 \times 12 &= 24 \\ 24 + 30 &= 54 \end{aligned}$$

**Answer:** about  $54^{\circ}\text{F}$

Use the thermometers to compare Fahrenheit and Celsius temperatures.

You can read across the thermometers to find an approximate temperature equivalent.

You can also find the change in temperature.

Find the change in temperature from  $100^{\circ}\text{F}$  to  $20^{\circ}\text{C}$ . How many degrees Fahrenheit has the temperature changed?

$20^{\circ}\text{C}$  is about  $68^{\circ}\text{F}$ . The temperature changed from  $100^{\circ}\text{F}$  to about  $68^{\circ}\text{F}$ . The temperature changed about  $32^{\circ}$ .

**Directions:** Find the change in temperature. Use the thermometers.

- |   |  |   |
|---|--|---|
| 1. $70^{\circ}\text{F}$ to $63^{\circ}\text{F}$   | 2. $20^{\circ}\text{F}$ to $32^{\circ}\text{F}$    | 3. $-15^{\circ}\text{C}$ to $5^{\circ}\text{C}$   |
| 4. $110^{\circ}\text{F}$ to $70^{\circ}\text{F}$  | 5. $-20^{\circ}\text{C}$ to $-10^{\circ}\text{C}$  | 6. $65^{\circ}\text{F}$ to $85^{\circ}\text{F}$   |
| 7. $20^{\circ}\text{C}$ to $45^{\circ}\text{C}$   | 8. $50^{\circ}\text{F}$ to $5^{\circ}\text{C}$     | 9. $-5^{\circ}\text{C}$ to $25^{\circ}\text{C}$   |
| 10. $15^{\circ}\text{C}$ to $55^{\circ}\text{C}$  | 11. $-10^{\circ}\text{C}$ to $-20^{\circ}\text{C}$ | 12. $25^{\circ}\text{F}$ to $0^{\circ}\text{F}$   |
| 13. $35^{\circ}\text{F}$ to $62^{\circ}\text{F}$  | 14. $-8^{\circ}\text{C}$ to $-20^{\circ}\text{C}$  | 15. $50^{\circ}\text{F}$ to $15^{\circ}\text{F}$  |
| 16. $32^{\circ}\text{F}$ to $24^{\circ}\text{F}$  | 17. $70^{\circ}\text{F}$ to $70^{\circ}\text{C}$   | 18. $-15^{\circ}\text{C}$ to $20^{\circ}\text{F}$ |
| 19. $100^{\circ}\text{F}$ to $15^{\circ}\text{C}$ | 20. $15^{\circ}\text{F}$ to $-15^{\circ}\text{C}$  | 21. $35^{\circ}\text{F}$ to $20^{\circ}\text{C}$  |

## Measurement: Skill 5 - 17C

**Temperature**

You can use a formula to estimate °C to °F. The formula is  $2 \times ^\circ\text{C} + 30$ .

Use the formula to convert 20°C to °F

$$2 \times 20 = 40$$

$$40 + 30 = 70^\circ\text{F}$$

So, 20°C is about 70°F.

**Directions:** Use the formula above to estimate the Fahrenheit temperature.

22.  $12^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

$$2 \times 12 = 24$$

$$24 + 30 = 54$$

Answer: 54°F

23.  $7^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

24.  $25^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

25.  $5^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

26.  $100^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

27.  $35^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

28.  $15^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

29.  $82^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

30.  $2^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

31.  $7^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

32.  $17^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

33.  $27^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

34.  $62^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

35.  $46^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

36.  $33^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

37.  $23^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

38.  $44^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

39.  $37^\circ\text{C} = \underline{\hspace{2cm}}^\circ\text{F}$

Answers: Skill 17C, Grade 5

1. changed  
by 7°F

2. 12°F

3. 20°C

4. 40°F

5. 10°C

6. 20°F

7. 25°C

8. 45°C

9. 30°C

10. 40°C

11. 10°C

12. 25°F

13. 27°F

14. 12°C

15. 35°F

16. 8°F

17. changed  
about 88°F

18. about  
10°C

19. about  
130°F

20. about  
10°F

21. about  
33°F

22. 54°F

23. 44°F

24. 80°F

25. 40°F

26. 230°F

27. 100°F

28. 60°F

29. 194°F

30. 34°F

31. 44°F

32. 64°F

33. 84°F

34. 154°F

35. 122°F

36. 96°F

37. 76°F

38. 118°F

39. 104°F