

Challenge: Wind Chill

Name: _____

Often on the news they will report the temperature and the wind chill. The wind chill is designed to give you a sense of how cold it will **feel**.

The formula for calculating wind chill is below

W is wind chill

T is temperature in Celsius

V is wind speed in kilometres per hour

$$W = 13.12 + (0.6215 \times T) - (11.37 \times V^{0.16}) + (0.3965 \times T \times V^{0.16})$$

1. Calculate the wind chill if it is -20 degrees Celsius and the wind is blowing at 50km/hr

2. Calculate the wind chill if it is -10 degrees Celsius and the wind is blowing at 20km/hr