# 3 Cooling system

### Start here

Try this quiz. Choose the correct answer.

What are the normal or average temperatures for these?

F = °C \* 9 / 5 + 32. This converts Celsius to Fahrenheit. °C = (°F - 32) \* 5 / 9. This converts Fahrenheit to

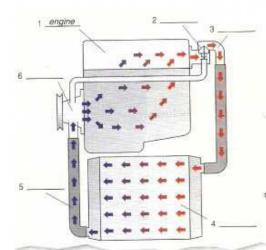
Celsius.

- b) 80°C (176°F) a) 60°C (140°F) Water from a shower?
- a) 4.5°F (-15°C) b) 40°F (4.5°C) Food in a refrigerator?
- b) -18°C (0°F) a) 0°C (32°F) Food in a freezer? 3 a) -89°C (-128°F) b) -20°C (-4°F)
- Coldest air temperature ever? ы) 136°F (58°С) a) 156°F (70°C)
- Hottest air temperature ever? b) 45°C (110°F) a) 110°C (230°F) Water in running car engine?
- Listening
- Listen and check your answers.

## Reading

3 Label the diagram with the words in the box.

bottom hose engine radiator thermostat top hose water pump



## Car cooling system

The engine drives the water pump and the pump pushes cool water around the engine. This cools the engine. At the same time, the water becomes hot. The water in a hot engine is normally around 110°C.

The hot water then passes through the thermostat, This controls the temperature of the engine. From the thermostat, it flows through the top hose into the radiator. (Here), a fan cools the water, and the cool water sinks to the bottom of the radiator.

The cool water then leaves the radiator(It)flows along the bottom hose, passes through the pump and enters the engine again.

c) temperature

c) water

c) fan

- Read the text. Check your answers to 3.
- Which words in the text do these words refer to?
  - b) thermostat a) hot water This (line 6)
  - b) thermostat 2 it (line 7) a) engine b) radiator 3 a) top hose
    - Here (line 8) c) bottom hose It (line 10) a) water b) radiator

#### Make true sentences. Speaking

(1) The water pump	control(s)	the radiator to the engine.
(2) The thermostat	connect(s)	air onto the radiator.
(3) The two hoses	push(es)	the hot water from the engine.
(4) The radiator	cool(s)	water around the engine.
(5) The fan blades	flow(s)	to the bottom of the radiator.
(6) Cool water	rise(s)	the temperature of the water.
(7) Hot water	sink(s)	through the two hoses.
(8) Water	blow(s)	to the top of the engine.