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## Weather: Humidity

## Answer all questions in the space provided.

Each cube stands for a part of the air. The temperature of each cube is $24^{\circ} \mathrm{C}$. The balls stand for water vapour.


Figure A


Figure B


Figure C

1. (a) Which air has the least water vapour?
(b) Which air has the most water vapour? $\qquad$
2. (a) Which air is the driest?
(b) Which air is the dampest?
3. (a) Which air has the highest relative humidity?
(b) Which air has the lowest relative humidity?
$\qquad$
(b) Which air has the lowest relative humidy?
4. What do you think? Which air may have rain soon?

Write the correct letter on the line next to each number.

1. $\qquad$ vapour
(a) can hold less water vapour
2. $\qquad$ percent
(b) gas
3. $\qquad$

## saturated

cold air
warm air
(c) filled up
(d) can hold more water vapour
(e) part of one hundred

Complete the sentences using words from the list below.

| saturated | water vapour | damp | little | less |
| :--- | :--- | :--- | :--- | :--- |
| $0 \%$ | relative humidity | $100 \%$ | more | lot |

1. Water in gas form is called $\qquad$ .
2. Dry air has a $\qquad$ water vapour.
3. Moist air has a $\qquad$ water vapour.
4. Cold air can hold $\qquad$ water vapour than warm air.
5. The higher the temperature, the $\qquad$ water vapour air can hold.
6. Air that holds all the water vapour it can is called $\qquad$ air.
7. Saturated air feels very $\qquad$ .
8. The amount of water vapour in the air compared to the amount it can hold is called
$\qquad$ _.
9. The highest relative humidity is $\qquad$ .
10.The lowest relative humidity is $\qquad$ .

Give thorough responses to the following questions.

1. What happens if the air is saturated and the temperature drops?
2. Explain why warmer temperatures can hold more water.
