

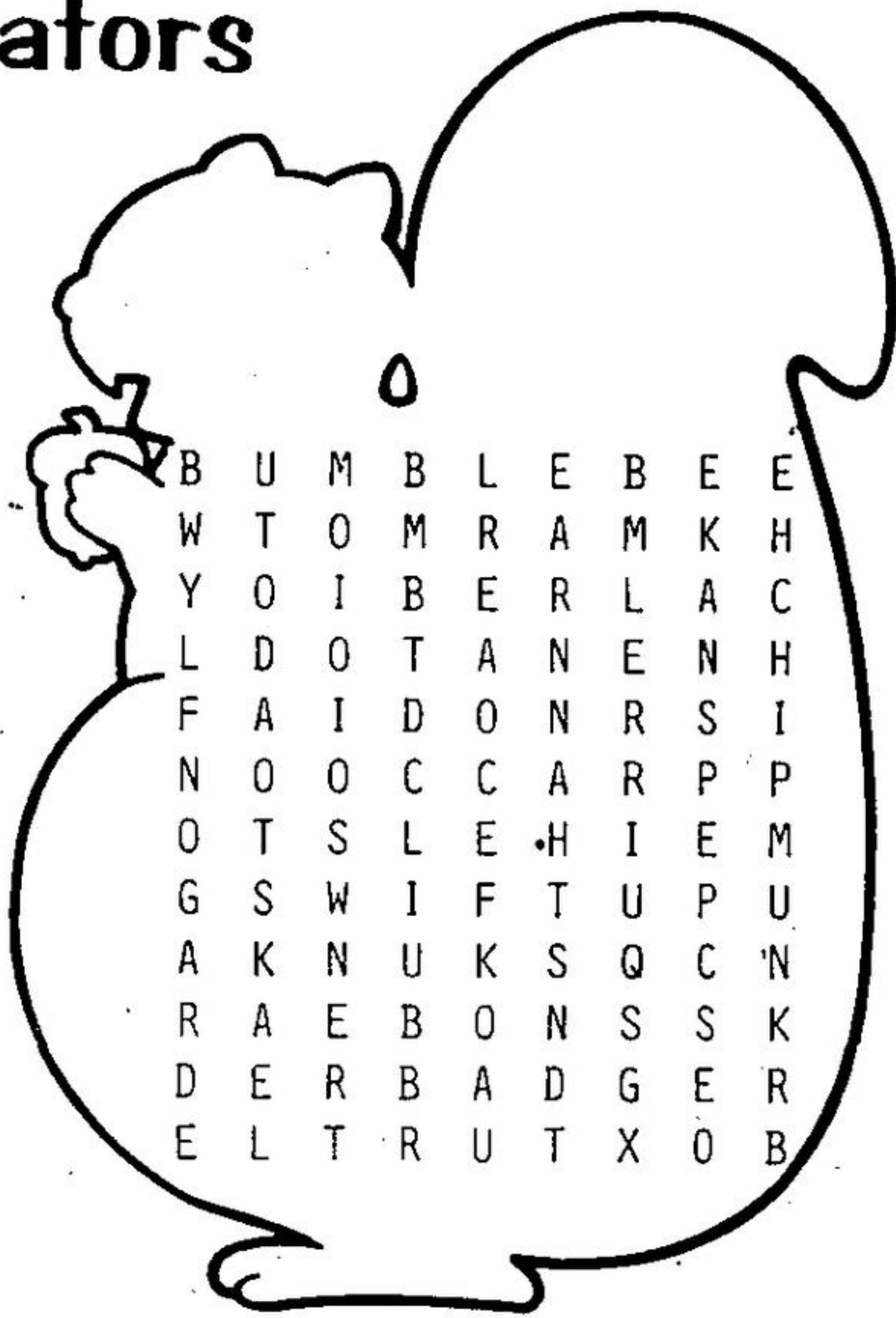
Young Outlook

Happy Hibernators

To *hibernate* means to spend the winter in close quarters in a numb, unmoving state.

A squirrel is one kind of animal that hibernates in the winter. To prepare for hibernation, squirrels (like many other hibernating animals) eat as much as they can before the winter months.

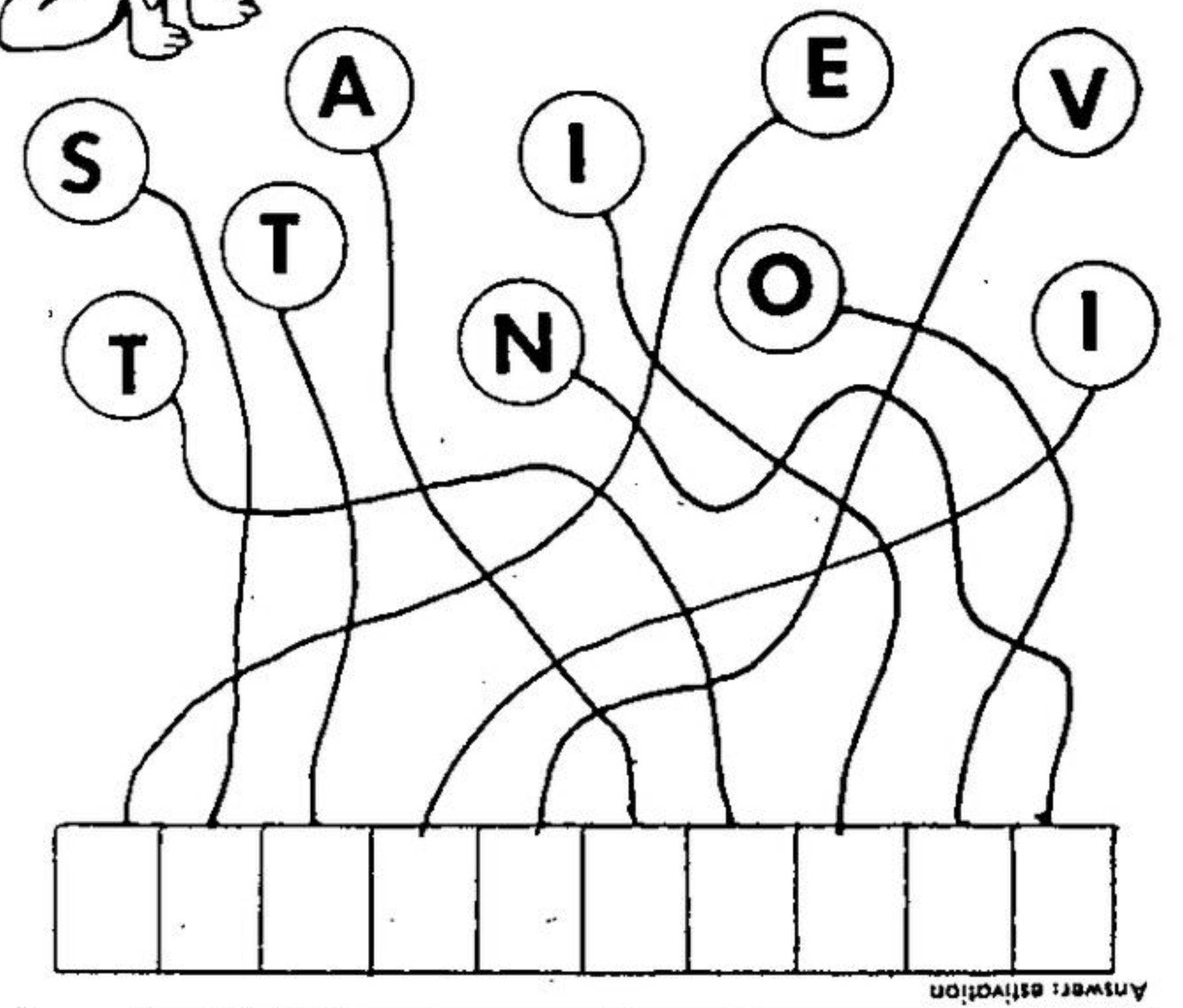
Hidden in the word search are many other animals that hibernate. Circle each one you find using the word list as a guide.



Summer Sleep



Alfie Alligator is trying to discover what the opposite of *hibernation* is. The opposite of hibernation means "to pass the summer in a sleepy state." Help Alfie find out by following the path of each letter to an empty square where you then write that letter. When all squares are filled, you can give Alfie the answer.



Sound Snoozers

Woody Woodchuck, Benny Bat, Rhonda Raccoon, Becky Bear, and Sallie Snake are all winter sleepers or hibernating animals. Try to find out which name belongs to each hibernator (numbers 1-5). Mark each clue off on the chart below.



- CLUES:
- Hibernator 1 is not a boy.
 - Hibernator 5 is a girl.
 - Woody Woodchuck is not Hibernator 4.
 - Hibernator 2 is not Benny Bat.
 - Hibernator 4 is a boy.
 - Rhonda Raccoon is not an even number.
 - Sallie Snake is an even number.
 - Becky Bear is a higher number than Rhonda Raccoon.

	Hibernator #1	Hibernator #2	Hibernator #3	Hibernator #4	Hibernator #5
Woody Woodchuck					
Benny Bat					
Rhonda Raccoon					
Becky Bear					
Sallie Snake					

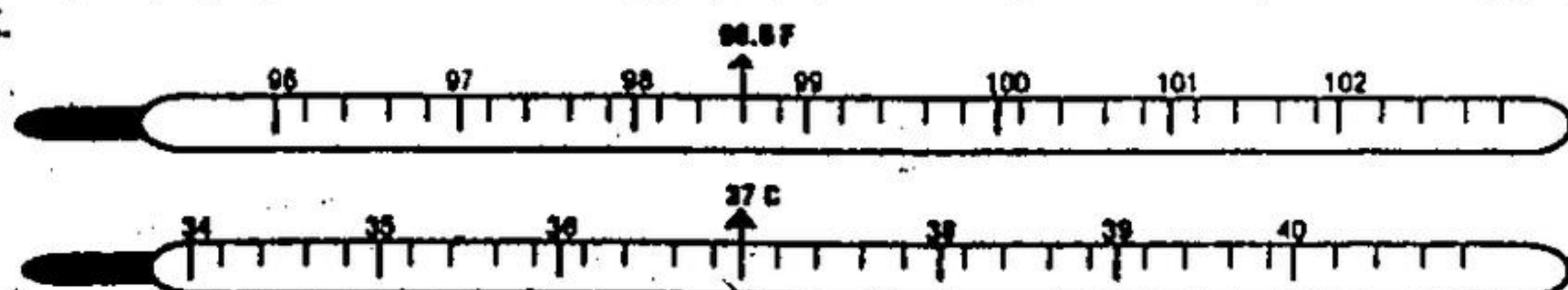
Answers: Woody Woodchuck-Hibernator #3, Benny Bat-Hibernator #4, Rhonda Raccoon-Hibernator #1, Becky Bear-Hibernator #5, Sallie Snake-Hibernator #2.

Fahrenheit = Celsius

Body temperatures and weather temperatures are usually measured using Fahrenheit. For instance a healthy human's body temperature should be approximately 98.6°F. A freezing temperature outside is 32°F.

Another way of referring to temperature readings is by using Celsius (or Centigrade). To change from Fahrenheit to Celsius, follow these steps: 1) Subtract 32 from the Fahrenheit reading. 2) Take 5/9 of the difference.

For example: (step 1) 98.6°F - 32 = 66.6; (step 2) 5/9 of 66.6 (divide 66.6 by 9 then multiply by 5) = 37°C.



What about the freezing temperature of 32°F? Change that to Celsius by filling in the blanks.

32°F - 32 = _____

(_____ ÷ 9) = _____ × 5 = _____

That was easy! The answer is 0°C.

Now, how about a really cold winter day of 10°F? Hint: Your Celsius answer will be below zero.

10°F - 32 = _____

(_____ ÷ 9) = _____ × 5 = _____°F.

Answers: Freezing temperature: 32°F - 32 = 0. 0 divided by 9 = 0. 0 times 5 = 0. 0 times 5 = 0. A cold day of 10°F: 10°F - 32 = -22. -22 divided by 9 = -2.4. -2.4 times 5 = -12.2. 10°F = -12°C.

Even though it is icy cold outside on this winter day, Paul Polar Bear is awake and ready to play. Although many kinds of bears in North America do hibernate during the winter months, among polar bears only pregnant females hibernate in the winter. There are ten ways in which these two pictures differ. Circle each difference you see.



Fun Facts

- When a woodchuck is active and moving around, it breathes about 2,100 times each hour. But when it is hibernating, its breathing rate decreases to only 10 breaths an hour.
- Unlike other hibernating animals, a bear's body temperature does not drop very much during his winter sleep. His temperature stays between 96° and 88° which is warm enough to melt any snow that might fall on his coat or into his cave.
- Bats sleep more soundly during hibernation than any other animal that hibernates. Some have been found covered with ice, but when the weather warms up they awaken as good as new.
- The prairie dog's burrow is a 12-foot hole, straight down, into which the animal dives head first.
- The word hibernation comes from the Latin word, *hiberno*, which means winter quarters.

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