Study the following.

repeating decimals - have a digit or group of digits that repeat on and on without ending, at the end of the number.

Examples: 10.333333…
6.7272727272…
8.123412341234…

These numbers can be rounded or written with a bar over the digit or digits that repeat.

	Rounded to the nearest hundredth	Written with a bar over the repeating part.
10.3333333…	10.33	$10.\overline{3}$
6.727272727…	6.73	$6.\overline{72}$
8.123412341234…	8.12	$8.\overline{1234}$

Write 4 examples of repeating decimals.

Round the following to the nearest tenth.

1. 12.66666…
2. 8.77777…
3. 20.444444…
4. 9.1818181818…

Round the following to the nearest hundredth.

1. 3.3888888…
2. 45.81818181…
3. 1.145454545…
4. 17.22222…

Write the following with a bar over the repeating part.

1. 89.33333…
2. 72.343434…
3. 2.2789789789…