

Homework & Practice 9-6

Place-Value Patterns with Numbers

Another Look! The digits in numbers can help you find patterns.

Pick a row in the chart.
Read the numbers across the row.

975	976	977	978	979	980
985	986	987	988	989	990
995	996	997	998	999	1,000

The **ones digits** go up by _____.

Pick a column in the chart and read the numbers from top to bottom.

The **tens digits** go up by _____.

1,000 comes after 999.



HOME ACTIVITY Write a three-digit number such as 120. Ask your child to write four more numbers after it, counting by 1s. Then ask your child to start at the number and write four more numbers below it, counting by 10s.



Use place-value patterns and mental math to find the missing numbers.

1.

633		635		637	
	644			647	648
653			656	657	

2.

	285	286			289
294	295		297		299
304			307		

Solve each problem.

3. **MP.3 Explain** Manuel thinks the tens digit goes up by 1 in these numbers. Do you agree? Explain.

460, 470, 480, 490, 500, 510

4. **MP.3 Explain** Maribel thinks the tens digit goes up by 1 in these numbers. Do you agree? Explain.

864, 865, 866, 867, 868, 869

5. **Higher Order Thinking** Write 5 three-digit numbers. From left to right, the ones digit in your numbers should go up by 1.

_____, _____, _____, _____, _____

Write 5 three-digit numbers. From left to right, the tens digit in your numbers should go up by 1.

_____, _____, _____, _____, _____

6. **Assessment** Use the numbers on the cards. Write the missing numbers in the number chart.

557 539 545 547

535	536	537	538		540
	546		548	549	550
555	556		558	559	560