Rounding Numbers By Place Value - Guided Lesson Explanation

Explanation to #1

Step 1) First we look to see what is being asked of us.

"What are 4,**2**38 rounded to the nearest hundreds"

Nearest 100s are numbers that are multiples of 100.

Multiples of 100 always have zeroes in the ones and tens place.

Step 2) What are the two nearest 100s to 4,238?

4200 or 4300

Step 3) Look at the tens place. 3 is at the tens place. 3 is less than 5; so we round down.

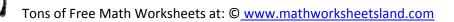We round 4,238 to 4200.

Explanation to #2

Step 1) Nearest 10s are numbers that are multiples of 10. Multiples of 10s always have 0 in the ones place.

Step 2) Nearest 100s are numbers that are multiples of 100. Multiples of 100s always have 0 in the ones and tens place.

Step 3) Nearest 1000s are numbers that are multiples of 1000. Multiples of 1000s always have 0 in the ones, tens, and hundred place.

The answer is therefore:

	Tens	Hundreds	Thousands
7412	7,410	7,400	7,000
832	830	800	1,000
12,118	12,110	12,100	12,000
1,254	1,250	1,300	1,200

Explanation to #3

Step 1) We have to find out what is being asked of us:

Estimate the product 87 $\times$ 48.

Step 2) Round 87 and 48 to their nearest tens. This would make the calculation quick and give us an accurate estimate.

Rounding would give us: 87 $\approx$ 90, and 48 $\approx$ 50.

Then 87 $\times$ 48 $\approx$ 90 $\times$ 50 = 4500.

This way the multiplication became is easy.

So, 4500 is the estimated product of 87 and 48.