

## Chapter 2: Numeration

**Whole numbers** can be represented using models, pictures, numbers, and words.

For example, 413 252 can be represented in the following ways:

Standard form: 413 252

Expanded form:  $400\ 000 + 10\ 000 + 3000 + 200 + 50 + 2$

4 hundred thousands + 10 thousands + 3 thousands  
+ 2 hundreds + 5 tens + 2 ones

Words: four hundred thirteen thousand two hundred fifty-two

Picture:

Thousands			Ones		
Hundreds	Tens	Ones	Hundreds	Tens	Ones
● ● ● ●	●	● ● ●	● ●	● ● ● ● ●	● ●

1. Write each number in standard form.

a)  $2000 + 500 + 2$  \_\_\_\_\_

b)  $40\ 000 + 5000 + 300$  \_\_\_\_\_

c) one hundred twenty-four thousand eight hundred eighteen \_\_\_\_\_

d) six hundred fifty-two thousand six hundred sixty-one \_\_\_\_\_

e)  $4\ \text{ten thousands} + 3\ \text{hundreds} + 7\ \text{tens} + 5\ \text{ones}$  \_\_\_\_\_

f)  $5\ \text{hundred thousands} + 6\ \text{thousands} + 4\ \text{hundreds} + 3\ \text{tens} + 2\ \text{ones}$  \_\_\_\_\_

2. In the number 162 354, does the 2 or the 3 have a greater value?  
Explain your thinking.

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3. What is the value of each shaded digit?

a) 164 278 \_\_\_\_\_

b) 45 895 \_\_\_\_\_

c) 791 546 \_\_\_\_\_

d) 789 005 \_\_\_\_\_

e) 67 932 \_\_\_\_\_

f) 176 583 \_\_\_\_\_

**Rule for Rounding** : 5 (6,7,8,9) or greater Round Up ↻  
 4 (3,2,1,0) or less stays The Same ⇨

	Round to the nearest		
	ten	thousand	hundred thousand
421 196			
371 089			
946 921			
398 712			
1 782 469			

eg. 
$$\begin{array}{r} 90 \\ \times 8 \\ \hline 720 \end{array}$$

$$\begin{array}{r} 37 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ \times 3 \\ \hline \end{array}$$

eg. 
$$\begin{array}{r} 58 \\ + 99 \\ \hline 157 \end{array}$$

$$\begin{array}{r} 76 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ + 82 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ + 25 \\ \hline \end{array}$$

eg. 
$$\begin{array}{r} 89 \\ - 26 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 53 \\ - 49 \\ \hline \end{array}$$

$$\begin{array}{r} 71 \\ - 39 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ - 38 \\ \hline \end{array}$$