

NBT. 2 continued

# Decimal Problems with Powers of 10

**Step 1**  
6.73  
decimal will move right

**Step 2**  
3  
number of jumps decimal will make

**Step 3**  
rewrite number  
 $6 \times 730 = 6,730$

**Step 4**  
move decimal based on Steps 1 and 2

**Step 5**  
Rewrite new answer

6.73

Step 1



←  
Decimal  
will move  
left

10

Step 2

2

tells us  
decimal  
will make  
2 jumps

=

06.73

Step 3  
rewrite number

0.0673

Step 4

move decimal  
based on  
Steps 1 and 2

Step 5

Rewrite  
new  
answer

# Review and Practice

① 6,507

4<sup>th</sup> gr: 6,000 + 500 + 7

in between:  $(6 \times 1000) + (5 \times 100) + (7 \times 1)$  ← no zeros

5<sup>th</sup> gr:  $(6 \times 10^3) + (5 \times 10^2) + (7 \times 10^0)$

②  $(5 \times 10^3) + (2 \times 10^2) + (4 \times 10^1) + (3 \times 10^0)$

in between:  $(5 \times 1000) + (2 \times 100) + (4 \times 10) + (3 \times 1)$

4<sup>th</sup> gr: 5000 + 200 + 40 + 3

Standard Form: 5,243

③ Value of  $10^0$ : 1  
Value of  $10^1$ : 10  
Value of  $10^4$ : 10,000

④  $1.63 \times 10^2 = 163$ .  
made 2 jumps

⑤  $\underline{56,320} \div 10^3 = 56.32$ ; so I must reverse and 3 jumps right  
already moved 3 jumps left

⑥  $5.12 \times \frac{10^3}{1} = 5,120.$

$3.3 \div \frac{10^1}{1} = 0.33$