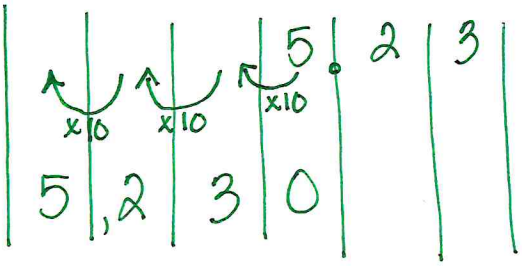
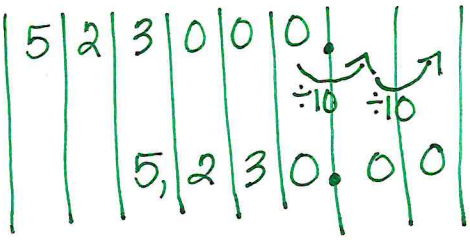
# Grade 5 Module 1 End-of-Module Review

Test Tues. 10/1

1. The following equations involve different quantities and use different operations, yet produce the same result. Use a place value chart and words to explain why this is true.

$5.23 \times 10^3 = 5{,}230$ $523{,}000 \div 10^2 = 5{,}230$




When multiplying by $10^3$, each digit shifts 3 places to the left. $10^3 = 10 \times 10 \times 10$, so each digit becomes 1,000 times as large.

When dividing by $10^2$, each digit shifts 2 places to the right. $10^2$ equals $10 \times 10$, or 100, so each digit becomes $\frac{1}{100}$ as large.

2. Use an area model to explain the product of 4.6 and 3. Write the product in standard form, word form, and expanded form.

| | 4 ones | 6 tenths |
|---|---|---|
| 3 | 12 ones | 18 tenths |

$12 + 1.8 = 13.8$ (standard form)

Thirteen and eight tenths (word form)

$1 \times 10 + 3 \times 1 + 8 \times \frac{1}{10}$ (expanded form)