



# MATH NEWS



Grade 4, Module 3, Topic D

October 2013

## 4<sup>th</sup> Grade Math

Module 3: Multi-Digit Multiplication and Division

### Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in the Engage New York material taught in the classroom. Module 3 of the Engage New York material covers Multi-Digit Multiplication and Division. This newsletter will discuss Module 3, Topic D.

Topic D. Multiplication Word Problems

### Things to Remember!!!

- Read the word problem carefully to figure out what steps are needed to solve each problem.



Write an equation that would allow someone to find the value of R

A 

250	250	250
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B 

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<sup>125</sup>

R

$R + 125 = 250 \times 3$

$R = 250 \times 3 - 125$

Solve the equation above

<b>Total of A</b> $\begin{array}{r} 250 \\ \times 3 \\ \hline 750 \end{array}$	<b>Two ways to Total B</b> <small>How many numbers are between 125 and 750</small> $\begin{array}{r} 750 \\ -125 \\ \hline 625 \end{array}$ $125 \rightarrow 150 \rightarrow 625$ $25 + 600 = 625$
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It takes 25 more to get to 150 and 600 more to get to 750.

## OBJECTIVE OF TOPIC D

- 1 Solve two-step word problems, including multiplicative comparison.
- 2 Use multiplication, addition, and subtraction to solve multi-step word problems.

## Focus Area- Topic D

Multiplication Word Problems

Multi-Step Problems

The table shows the cost of party favors found in 1 party bag. Each guest receives 2 balloons, 3 lollipops, and 1 bracelet. What is the total cost for 8 guests?

Item	Cost
1 balloon	24¢
1 lollipop	12¢
1 bracelet	34¢

One bag = \$1.18

2 balloons	$24¢ \times 2 = 48¢$
3 lollipops	$12¢ \times 3 = 36¢$
1 bracelet	$34¢ \times 1 = 34¢$

$\$1.18$

$48 + 36 + 34$

$48 + 70 = 118$

$\frac{118}{\times 8}$

944

944¢ or \$9.44

The total cost for 8 party bags is \$9.44

They paid for the party favors with a \$20 bill. How much change should they expect back?

$\$20.00$	$19.99$	$\overset{1}{\cancel{20}}.\overset{0}{\cancel{00}}$
$\$9.44$	$?$	$- 9.44$
		$\hline 10.56$

Take a penny from both numbers to find the solution. If the same amount is subtracted from both numbers, the amount between the numbers will remain the same.

They would receive \$10.56 change.