

# MATH NEWS

Grade 4, Module 3, Topic D

## 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 |
|-----|-----|-----|

**B**

|  |
|--|
|  |
|--|

 $\xrightarrow{125}$

$R$

$R + 125 = 250 \times 3$   
 $R = 250 \times 3 - 125$

Solve the equation above

| Total of A   | Two ways to Total B   |
|--|---|
| $\begin{array}{r} 250 \\ \times 3 \\ \hline 750 \end{array}$ | $\begin{array}{r} 750 \\ -125 \\ \hline 625 \end{array}$ <p style="font-size: small; margin-top: 5px;">How many numbers are between 125 and 750<br/> <math>125 \xrightarrow{25} 150 \xrightarrow{25} 175 \xrightarrow{25} 200 \xrightarrow{25} 225 \xrightarrow{25} 250</math><br/> <math>25 + 600 = 625</math></p> |

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  | $34¢ \times 1 = 34¢$ |

$\$1.18$   $\left\{ \begin{array}{l} 48 + 36 + 34 \\ 48 + 70 = 118 \end{array} \right.$

$\begin{array}{r} 118 \\ \times 8 \\ \hline 944 \end{array}$

The total cost for 8 party bags is \$9.44

$944¢$  or \$9.44

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

|           |                |  |
|-----------|----------------|--|
| $\$20.00$ | $19.99$        | $\overset{1}{\cancel{2}}\overset{0}{\cancel{0}}\overset{10}{\cancel{0}}$ |
| $\$9.44$  | $- 9.43$       | $- 9.44$   |
| ?         | $\hline 10.56$ | $\hline 10.56$   |

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.