Write Numerical Expressions

I Can use a numerical expression to describe a situation.

Ê

UNLOCK the Problem Real

A **numerical expression** is a mathematical phrase that has numbers and operation signs but does not have an equal sign.

Tyler caught 15 small bass, and his dad caught 12 small bass in the Memorial Bass Tourney in Tidioute, PA. Write a numerical expression to represent how many fish they caught in all.

Choose which operation to use.

You need to join groups of different sizes, so use addition.

Tyler ↓	plus ↓	his dad \downarrow
15	+	12

So, 15 + 12 represents how many fish they caught in all.

Example 1 Write an expression to match the words.

Addition

olive oil

J

<u>1</u> 3

B Subtraction

Lucia has 128 stamps. She uses 38 stamps on party invitations.

stamps used

T

friends

Math

Tall

plus	vinegar	stamps	minus
↓	↓	↓	↓
+	<u>1</u> 3	128	_

G Multiplication

Karla buys 5 books. Each book costs \$3.

books	times	cost per book
\downarrow	\downarrow	\downarrow
	×	

Myleen mixes $\frac{1}{3}$ cup of olive oil and

 $\frac{1}{2}$ cup of vinegar to make dressing

Division

carrots

Four friends share 5.2 pounds of carrots.

divided

by ↓ ÷



Florida's B.E.S.T.

 Algebraic Reasoning 5.AR.2.1
Mathematical Thinking & Reasoning MTR.4.1, MTR.6.1, MTR.7.1

CHAPTER 12

Lesson 2

7.1 real-world contexts. What does the expression model in each example?

Apply mathematics to

Expressions with Parentheses The meaning of the words in a

problem will tell you where to place the parentheses in an expression.

Example 2 million		
the meaning of the words?	• Underline the events for each day.	
Mauris went fishing for 3 days. Each day he put \$15	• Circle the number of days these	
At the end of each day, he had \$5 left. How much r	noney did	
Mauris spend by the end of the trip?		
Think: Each day he took \$15 and had \$5 left. He did this	; for 3 days.	
(\$15 - \$5) Think: What expression can you write to show how much money Mauris spends in one day?	3 × (\$15 − \$5) ← Think: What expression can you write to show how much money Mauris spends in three days?	
Example 3 Which problem matches the expression \$20 – (\$12 + \$3)? Kim has \$20 to spend for her fishing trip. She spends \$12 on a fishing pole. Then she finds \$3. How much money does Kim have now?	Kim has \$20 to spend for her fishing trip. She spends \$12 on a fishing pole and \$3 on bait.	
List the events in order	List the suggest in order	
List the events in order.	List the events in order.	
First: Kim has \$20.	First: Kim has \$20.	
Next:	Next:	
Then:	Then:	
Do these words	Do these words	
match the expression?	match the expression?	
	Math Talk MIR Assess the reasonableness 6.1 of solutions.	
Share and Show Math Board	Explain how the expression of what Mauris spent in three days compares to the expression of what he spent in one day?	
Circle the expression that matches the words.		
1. Teri had 18 worms. She gave 4 worms to Jada and 3 worms to Dejuan.	2. Rick had \$188.60. He then worked 4 hours for \$15.75 each hour.	
(18-4)+3 $18-(4+3)$	$188.60 + (4 \times 15.75)$ ($188.60 + 4$) × 15.75	