

Unit 4

Family Letter

Reveal
MATH[®]

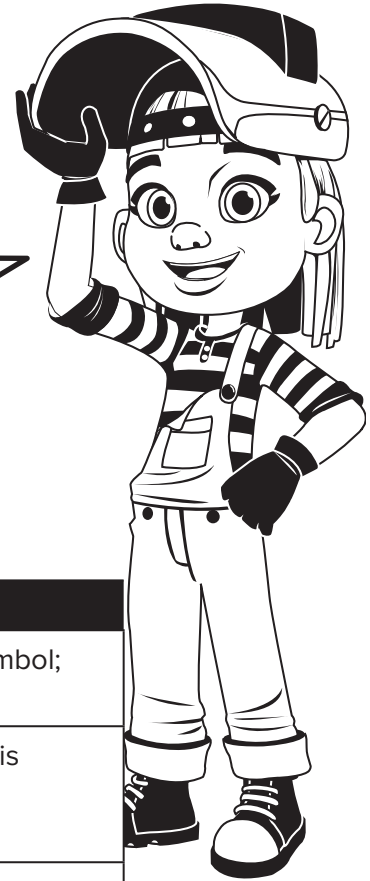
Dear Family,

In this unit, *Multiplication as Comparison*, your child will learn how to solve comparison word problems using addition and multiplication. Your child will also learn how to write statements and multiplication equations to compare two or more quantities.

STEM Career Kid for this Unit

Hi, I'm Hannah.

I want to be a welder. I will use math in my job when I take things apart and put them back together. I will use the math of this unit to compare the different pieces I cut and weld back together.



What math terms will your child use?

Term	Student Understanding
multiplication equation	a number sentence that contains a multiplication symbol; for example: $10 \times 2 = 20$
additive comparison	a comparison of two numbers in which one number is described as being more than the other number; for example: 12 is 3 more than 9
multiplicative comparison	a comparison of two numbers in which one number is described as a multiple of the other number; for example: 20 is 2 times as many as 10



What can your child do at home?

Help your child write multiplicative comparison statements and equations. Write the words *is*, *times as many*, and *as* on index cards. Then have your child write the numbers 1-20 on index cards, one number per card. Using all of the index cards, work with your child to create correct multiplicative comparison statements. Then help your child write a multiplication equation to represent each multiplicative comparison statement.

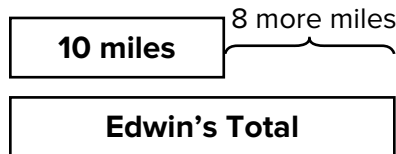
What Will Students Learn in This Unit?

Solving a Comparison Word Problem Using Multiplication and Addition

Your child will solve comparison word problems using multiplication and addition. He or she will learn to identify, write, and solve an addition or multiplication equation to represent a comparison given in a word problem.

Example

Chan drives 10 miles. Edwin drives 8 more miles than Chan.
How many miles does Edwin drive?



$$10 + 8 = \text{Edwin's miles}$$

$$10 + 8 = 18$$

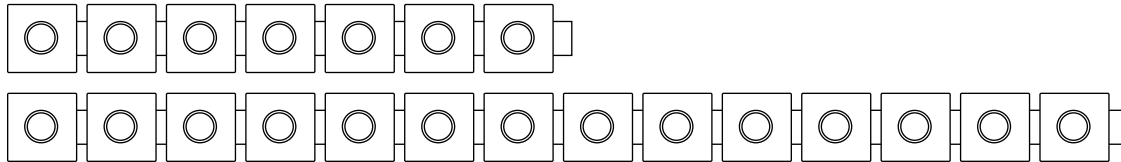
Edwin drives 18 miles.

Solving Comparison Problems Using Multiplication

Your child will write multiplicative comparison statements and multiplication equations to describe comparisons. He or she will learn that a multiplicative comparison statement has the form:

_____ is _____ times as many as _____.

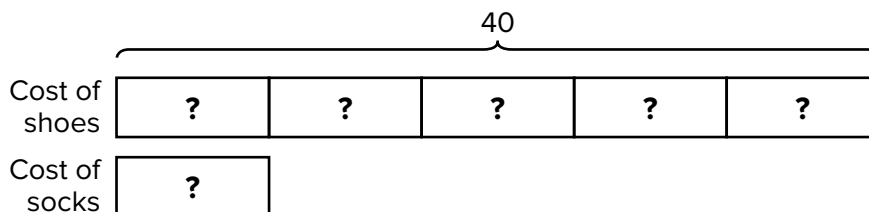
Example



14 is 2 times as many as 7.

Solve Comparison Problems Using Division.

Your child will write division equations to represent multiplicative comparisons. He or she will learn to draw a bar diagram and write a division equation to solve comparisons.



$$40 \div 5 = ?$$
$$? = 8$$