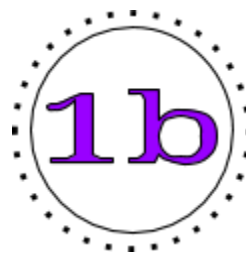


# MATH PARENT GUIDE - UNIT 1 Part 2



## IMPORTANT CONCEPTS YOUR STUDENT SHOULD KNOW AND ACTIVITIES TO DO AT HOME

### Multiples.Factors.Prime.Composite.Multiplication.Division

#### Important Concepts Addressed in this Unit

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• find all factor pairs for a whole number between 1-100</li> <li>• recognize that a whole number is a multiple of each of its factors</li> <li>• tell whether a whole number between 1-100 is prime or composite</li> <li>• interpret a multiplication equation as a comparison</li> <li>• represent verbal statements of multiplicative comparisons as multiplication equations</li> <li>• tell the difference between multiplicative comparison and additive comparison</li> </ul> | <ul style="list-style-type: none"> <li>• multiply or divide to solve word problems involving multiplicative comparison by using drawings and equations with a symbol for the unknown number to represent the problem</li> <li>• use the four operations to solve multistep, whole number word problems that have whole number answers.</li> <li>• write equations for these problems with a letter standing for the unknown quantity</li> </ul> |
|--|---|

#### Key Words To Know

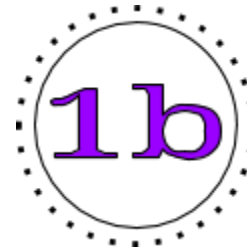
**multiple:** The product of a whole number and another whole number.  
**factor:** A number that divides evenly into another number.  
**prime:** A number that has exactly two factors, itself and 1.  
**composite:** A number that has more than two factors.  
**unknown variable :** A symbol, usually a letter, that can stand for a quantity.  
**multiplicative comparison:** A comparison of two numbers using multiplication.  
**additive comparison:** A comparison of two numbers using addition.  
**area model:** A model used to multiply two numbers.  
**dividend:** A quantity to be divided.  
**divisor:** The quantity by which another quantity is to be divided.  
**quotient:** The answer to a division problem

#### How You Can Help Your Student

**Interactive Learning Games:** Playing games is a wonderful way to practice skills at home in a fun environment.

<http://www.mathplayground.com/multiples.html>  
<http://www.math-play.com/Factors-and-Multiples-Jeopardy/Factors-and-Multiples-Jeopardy.html>  
<https://www.topmarks.co.uk/Flash.aspx?a=activity02>  
<https://www.mathgames.com/skill/3.57-multiplication-input-output-tables-find-the-rule>  
<http://www.mathplayground.com/multiplication05.html>

# MATH PARENT GUIDE - UNIT 1 Part 2



## Sample Problems

- List the first eight multiples of 4: **4, 8, 12, 16, 20, 24, 28, 32**
- List the factors for 12: **1, 2, 3, 4, 6, 12** or **1 x 12, 2 x 6, 3 x 4**
- Determine if the number is prime or composite: **17-prime 22-composite**
- Doug has 4 scoops of ice cream. His cone has 4 times as many scoops as his sister. How many scoops does his sister have? **4 x \_\_\_ = 4 His sister has 1 scoop**
- There are 9 bicycles and 5 cars in the garage. How many tires are there in all? **9 x 2 = 18 5 x 4 = 20 18 + 20 = 38**
- A dvd cost \$6. A radio cost 4 times as much. How much does the radio cost? **6 x 4 = \$24**
- Ashley has 21 pencils. Sarah has 8 more pencils than Ashley. How many pencils does Sarah have? **21 + 8 = 29**
- Model 53 x 7

	50	+	3	
7	<b>50 x 7 = 350</b>		<b>3 x 7 = 21</b>	
	<b>350 + 21 = 371</b>			

- Model 34 x 28

	20	+	8	
30	<b>30 x 20 = 600</b>		<b>30 x 8 = 240</b>	
+				
4	<b>4 x 20 = 80</b>		<b>4 x 8 = 32</b>	
	<b>600 + 240 + 80 + 32 = 952</b>			

- Model 142 ÷ 4 See video at:
- [https://www.youtube.com/watch?v=mEa\\_TWmPsVg&feature=youtu.be](https://www.youtube.com/watch?v=mEa_TWmPsVg&feature=youtu.be)

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