Name ____

Using Variables to Write Expressions

A variable represents a quantity that can change. To use a variable to write an algebraic expression for a situation, you need to decide which operation is appropriate for the situation. To help you, some words and phrases are listed below.

Word phrase	Variable	Operation	Algebraic Expression
ten more than a number b	b	Addition	b + 10
the sum of 8 and a number <i>c</i>	С		8 + c
five less than a number <i>d</i>	d	Subtraction	d – 5
15 decreased by a number e	е		15 – e
the product of 8 and a number <i>f</i>	f	Multiplication	8 <i>f</i>
19 times a number <i>g</i>	g		19 <i>g</i>
a number <i>h</i> divided by 2	h	Division	$h \div 2$
a number <i>i</i> divided into 50	i		50 ÷ <i>i</i>

Write each algebraic expression.

1. a number *k* **divided by** 6

Identify the operation.	Write the expression.
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- **2.** the **sum** of 8 and a number *q*_____ **3.** 5 **times** a number *b*___
- 4. a number *j* divided into 3 _____ 5. 7 less than a number *d* _____
- 6. *n* fewer carrots than 12 _____ 7. *w* lunches at \$9 each ___
- 8. A touchdown scores 6 points. Write an algebraic expression to represent the number of points the Hawks will score from touchdowns.

Identify the operation _____ Write the expression.

9. Write an algebraic expression to represent the situation below. Explain how the expression relates to the situation.

Some children share 6 oranges equally among themselves.